



BotsIQ Interview and Documentation Evaluation Rubric

Engineering Notebook Evaluation Criteria:		Points Earned
Team Information in View Panel	10pts.	
Binder Index Page	15pts.	
Composition		
Composition Content and Format	20pts.	
Resumes	25pts.	
Correct Number of Compositions	10pts.	
Industry Advisor Interview	25pts.	
Portfolio:		
Design Motivation		
Influences	10pts.	
Competition Strategies	10pts.	
Team Procedures		
Team Management	5pts.	
Project Schedule	15pts.	
Accounting/Budget	10pts.	
Safety Plan	15pts.	
Data Management	5pts.	
Promotional/Fundraising	10pts.	
Design Process		
Research Methods	10pts.	
Refinement	30pts.	
Structural Analysis	10pts.	
Engineering Drawings Set	30pts.	
Material Selection	20pts.	
Manufacturing Plans	30pts.	
Assembly Models	20pts.	
Weapon System Details	10pts.	
Drive System Details	10pts.	
Power System Details	10pts.	
Wiring Schematic	10pts.	
Testing Results	5pts.	
Interview		
Response to Debriefing	25pts.	
Evidence of Safety Procedures	15pts.	
Evidence of Teamwork	15pts.	
Evidence of Skills Learned	15pts.	
TOTAL:	450pts.	

NOTE: Copies of the Safety Plan and Bill(s) of Material to be available in the Pit separate from this Notebook.

An FAQ section is located at the end of this document; please look there for any clarification that may be needed.

Team Information in View Panel	Binder Index Page	Composition Content and Format
<p>0-3pts.</p> <ul style="list-style-type: none"> Team information is not displayed, incorrect, or unintelligible. 	<p>0-3pts.</p> <ul style="list-style-type: none"> Binder index page is missing or unable to be deciphered. 0-49% of the binder sections are listed in the index. The binder sections are not marked in a corresponding fashion with the index. 	<p>0-5pts.</p> <ul style="list-style-type: none"> Student's name or team name or both missing from individual compositions. Student compositions show a lack of effort in regard to grammar, organization, and the use of word processing tools. Robot is not described, or description does not fit the robot. Students do not detail what their individual contributions were.
<p>4-6pts.</p> <ul style="list-style-type: none"> Team information is present, and correct. Information presented in an unclear fashion. 	<p>4-9pts</p> <ul style="list-style-type: none"> Binder index page is difficult to interpret or contains erroneous information. 50-74% of the binder sections are listed in the index. 	<p>6-10pts.</p> <ul style="list-style-type: none"> Student & team name exist. Student compositions show effort in regard to grammar, organization, and the use of word processing tools. Student's individual contribution is unclear. Robot is described in final form only.
<p>7-9pts.</p> <ul style="list-style-type: none"> Team information is present, correct, and clear. 	<p>10-14pts</p> <ul style="list-style-type: none"> Binder index page displays information on individual sections inside the binder. 75-99% of the binder sections are listed in the index. Binder sections are clearly marked and correspond with the index. 	<p>11-15pts.</p> <ul style="list-style-type: none"> Student & team names are prominently displayed. Student compositions have few grammar errors and are presented in a logical format. Composition describes the student's involvement in project. Description of robot including build evolution.
<p>10pts.</p> <ul style="list-style-type: none"> Team Information is correct, prominently, and clearly displayed. 	<p>15pts.</p> <ul style="list-style-type: none"> Binder index page prominently displays the information on the individual sections inside the binder. All binder sections are listed in the index. All binder sections are clearly marked in a corresponding fashion with the index. 	<p>16-20pts.</p> <ul style="list-style-type: none"> Student and team name easily readable on front page & every separate page. Student compositions have no grammar errors and are presented in an easy to follow format. Overall composition clearly shows student's individual experience, experience of working in a team; insights & learning is evident. Description of robot includes final form, evolution, and weaknesses & strengths.
<p>Team Information in View Panel Points Earned 0-10pts.</p>	<p>Binder Index Page Points Earned 0-15pts.</p>	<p>Composition Content and Format Points Earned 0-20pts.</p>

Resumes	Correct Number of Compositions and Resumes	Industry Advisor Interview
<p>0-6pts</p> <ul style="list-style-type: none"> • Students name and contact information missing or incomplete. • The list of education level to date, volunteer work, extracurricular activities, internships, co-ops, and employment is missing or difficult to follow. • The career objective is missing or difficult to understand. 	<p>0-3pts</p> <ul style="list-style-type: none"> • 0-49% of the core team member compositions and resumes are present. • Core team members are not identified in a separate document. 	<p>0-7pts.</p> <ul style="list-style-type: none"> • No Advisor interview is present or is done in such a way as to make the gleaning of information difficult for judges. • No evidence of additional questions posed to the advisor during the interview.
<p>7-13pts</p> <ul style="list-style-type: none"> • Students name and contact information listed. • A list of education level to date, volunteer work, extracurricular activities, internships, co-ops, and employment is present. • A career objective detailing special skills and experiences as well as type of positions desired is included. 	<p>4-6pts</p> <ul style="list-style-type: none"> • 50% - 74% of the core team member compositions and resumes are present. • Core team members are identified in a separate document. 	<p>8-15pts.</p> <ul style="list-style-type: none"> • Most basic required questions are articulately covered and give an in-depth understanding of the interviewee. • Information is presented in a somewhat logical format • Additional questions posed are irrelevant to the advisor's story.
<p>14-20pts</p> <ul style="list-style-type: none"> • Students name and contact information listed first. • A clear list of education level to date, volunteer work, extracurricular activities, internships, co-ops, and employment is present. • A career objective detailing special skills and experiences as well as type of positions desired is presented in a clear fashion. 	<p>7-9pts</p> <ul style="list-style-type: none"> • 75% -99%of the core team member compositions and resumes are present. • Core team members are identified in a separate document and the document is in the front of the composition section. 	<p>16-23pts.</p> <ul style="list-style-type: none"> • Most basic required questions are articulately covered and give an in-depth understanding of the interviewee. • Information is presented in a logical fashion. • Additional questions posed add insight into the interviewee's story.
<p>21-25pts.</p> <ul style="list-style-type: none"> • Students name and contact information listed first and prominently. • A clear and detailed list of education level to date, volunteer work, extracurricular activities, internships, co-ops, and employment is present. • A career objective detailing special skills and experiences as well as type of positions desired is presented in a clear and well-organized fashion. 	<p>10pts.</p> <ul style="list-style-type: none"> • 100% of the core team member compositions and resumes are present. • Core and extended team members are identified in a separate document and the document is the front page of the composition section. 	<p>24-25pts.</p> <ul style="list-style-type: none"> • All basic required questions are articulately and expressly covered giving an in-depth understanding of the interviewee's career path. • Information is presented in a clear and logical fashion. • Additional questions posed to the interviewee bring about a greater understanding of the interviewee's story.
<p>Resumes Points Earned 0-10pts.</p>	<p>Correct Number of Compositions and Resumes Points Earned 0-10pts.</p>	<p>Industry Advisor Interview Points Earned 0-25pts.</p>

Influences	Competition Strategies	Team Management	Project Schedule
<p>0-3pts.</p> <ul style="list-style-type: none"> • Few or no influences are cited that pertain to the robot design process. • The influences that are cited have little or no specifics as to how they shaped the robot design process. 	<p>0-2pts.</p> <ul style="list-style-type: none"> • The competition strategies show little or no strategic planning. • The strategies are presented in a confusing manner. 	<p>0-1pts.</p> <ul style="list-style-type: none"> • The description of how the team managed itself is missing. • The team management description provides an unclear picture of team management and may or may not contain pertinent information. 	<p>0-4pts.</p> <ul style="list-style-type: none"> • The project schedule is missing. • The project schedule provides an unclear description of the schedule the project was intended to follow, lacks organization, detailed information, and/or member task assignments.
<p>4-6pts.</p> <ul style="list-style-type: none"> • Relevant design influences are cited. • The specifics as to how they influenced the robot design process are unclear. 	<p>3-5pts.</p> <ul style="list-style-type: none"> • The competition strategies section highlights how the team will exploit their opponents' vulnerabilities while mitigating their own weaknesses. • The strategies are presented in a hard to follow manner. 	<p>2-3pts.</p> <ul style="list-style-type: none"> • The team management description provides a clear picture of team management but lacks organization of thoughts. 	<p>5-9pts.</p> <ul style="list-style-type: none"> • The project schedule provides a description of the critical milestones that determine the project end date, the difference between labor and duration needed to complete tasks, and task assignments to team members. • The schedule is lacking in organization and detail.
<p>7-9pts.</p> <ul style="list-style-type: none"> • Many design influences are cited. • Specifics as to how the influence shaped the design of the robot are present. 	<p>6-8pts.</p> <ul style="list-style-type: none"> • The competition strategies section provides a detailed account of strategies the team will use to nullify their own weaknesses and exploit their opponents' vulnerabilities. • The strategies are presented in an organized fashion. 	<p>4pts.</p> <ul style="list-style-type: none"> • The management description provides a clear picture of team management, is organized in a coherent fashion, but lacks detail. 	<p>10-13pts.</p> <ul style="list-style-type: none"> • The project schedule provides a clear description of the critical milestones that determine the project end date, the difference between labor and duration needed to complete tasks, and task assignments to team members. • The schedule is presented in an organized fashion, but lacks detail.
<p>10pts.</p> <ul style="list-style-type: none"> • A copious amount of design influences are cited. • Specifics as to how the influence shaped the design of the robot are prevalent. 	<p>9-10pts.</p> <ul style="list-style-type: none"> • The competition strategies section provides a comprehensive look into the strategies the team will use to nullify their own weaknesses and exploit their opponents' vulnerabilities. • The strategies are presented in a logically organized fashion. 	<p>5pts.</p> <ul style="list-style-type: none"> • The management description provides a clear, detail oriented description of how the team managed itself during the course of the current season and is presented in an organized fashion. 	<p>14-15pts.</p> <ul style="list-style-type: none"> • The project schedule provides a clear, detail oriented description of the critical milestones that determine the project end date, the difference between labor and duration needed to complete tasks, and task assignments to team members. • The schedule is presented in a well organized fashion.
<p>Influences Points Earned 0-10pts.</p>	<p>Competition Strategies Points Earned 0-10pts.</p>	<p>Team Management Points Earned 0-5pts.</p>	<p>Project Schedule Points Earned 0-15pts.</p>

Accounting/Budget	Safety Plan	Data Management	Promotional/Fundraising
<p>0-3pts.</p> <ul style="list-style-type: none"> The description of the team's budget is missing. The budget provided gives an unclear picture of how the team managed their income and expenses. The budget is missing pertinent information and/or is disorganized. 	<p>0-4pts.</p> <ul style="list-style-type: none"> The safety plan is missing. The safety plan provided gives an unclear description of how the team plans to stay safe during each stage of the project. The safety plan is missing pertinent information and /or is disorganized. 	<p>0-1pts.</p> <ul style="list-style-type: none"> The description of how the team managed their data is missing. The data management description provided gives an unclear and/or disorganized picture of how the team managed their data. 	<p>0-3pts.</p> <ul style="list-style-type: none"> The description of how the team promoted themselves and/or conducted fundraising is missing. The promotional/fundraising description provided gives an unclear and/or disorganized picture of how the team promoted themselves and/or conducted their fundraising.
<p>4-6pts.</p> <ul style="list-style-type: none"> The budget provides a clear picture of how the team managed their income and expenses but lacks organization, and is vague. 	<p>5-9pts.</p> <ul style="list-style-type: none"> The safety plan provides a description of how the team plans to stay safe during a stage of the project and includes a description of the teams' safety committee, after action injury procedures and reports, and incentives for working safe. The safety plan is vague in its description and lacks organization. 	<p>2-3pts.</p> <ul style="list-style-type: none"> The data management description provides a clear picture of how the team managed the data they generated during the course of their robotic activities, but lacks organization or order. 	<p>4-6pts.</p> <ul style="list-style-type: none"> The promotional/fundraising description provides a clear picture of how the team promoted themselves and/or conducted their fund raising, but lacks organization or order.
<p>7-9pts.</p> <ul style="list-style-type: none"> The budget provides a clear understanding of the team's income and expenses, is organized, but the details provided are not comprehensive. 	<p>10-13pts.</p> <ul style="list-style-type: none"> The safety plan provides a clear description of how the team plans to stay safe during stages of the project and includes but is not limited to a description of the teams' safety committee, after action injury procedures and reports, and incentives for working safe. The safety plan is presented in an organized fashion. 	<p>4pts.</p> <ul style="list-style-type: none"> The data management description provides a clear picture of how the team managed the data they generated during the course of their robotic activities, is organized in a coherent fashion, but lacks detail. 	<p>7-9pts.</p> <ul style="list-style-type: none"> The promotional/fundraising description provides a clear picture of how the team promoted themselves and/or conducted their fund raising, is organized in a coherent fashion, but lacks detail.
<p>10pts.</p> <ul style="list-style-type: none"> The budget provides a clear, comprehensive description of how the team managed their income and expenses during the course of the construction and operation of their robot. The budget is presented in an organized fashion. 	<p>14-15pts.</p> <ul style="list-style-type: none"> The safety plan provides a clear, comprehensive description of how the team plans to stay safe during each stage of the project and includes but is not limited to a description of the teams' safety committee, after action injury procedures and reports, and incentives for working safe. The safety plan is presented in a well organized fashion. 	<p>5pts.</p> <ul style="list-style-type: none"> The data management description provides a clear, detail oriented description of how the team managed the data they generated during the course of their robotic activities. The data management description is presented in a well organized fashion. 	<p>10pts.</p> <ul style="list-style-type: none"> The promotional/fundraising description provides a clear, detail oriented description of how the team promoted themselves and/or conducted their fund raising. The promotional/fundraising description is presented in a well organized fashion.
<p>Accounting/Budget Points Earned 0-10pts.</p>	<p>Safety Plan Points Earned 0-15pts.</p>	<p>Data Management Points Earned 0-5pts.</p>	<p>Promotional/Fundraising Points Earned 0-10pts.</p>

Research Methods	Refinement	Structural Analysis	Engineering Drawing Set
<p>0-3pts.</p> <ul style="list-style-type: none"> The description of how the team conducted their research is missing. The description of research methods provided gives an unclear and/or disorganized picture of how the team conducted their research, areas the team's research focused on, and why they focused on those areas. 	<p>0-9pts.</p> <ul style="list-style-type: none"> No refinement description present in the documentation binder. Refinement section is present but does not show a logical progression through a design process. 	<p>0-3pts.</p> <ul style="list-style-type: none"> No structural analysis is present in the documentation binder. Structural analysis section is present but lacks detail on individual parts and/or is missing structural components. The mitigation of possible failure points is not addressed. 	<p>0-9pts.</p> <ul style="list-style-type: none"> No engineering drawings are provided in the documentation binder. Drawings that are provided do not represent all custom or modified stock components on the final competition robot and/or are not dimensioned. The robot could not be reproduced from the engineering drawings provided. The engineering drawing set has no formal organization.
<p>4-6pts.</p> <ul style="list-style-type: none"> The description of research includes a clear picture of only part of the following: how the team conducted their research; areas the team's research focused on; and why they focused on those areas. The description of research lacks organization. 	<p>10-18pts.</p> <ul style="list-style-type: none"> Refinement description has an explanation of designs and concepts that were explored, revised, and used in the process of designing and building the final competition robot. An evolution of the final robot design is vaguely explained. 	<p>4-6pts.</p> <ul style="list-style-type: none"> An analysis detailing structural components in the final competition robot identifying possible part failure points. The mitigation of the identified possible failure points is vaguely discussed. 	<p>10-18pts.</p> <ul style="list-style-type: none"> A set of vague drawings, including dimensions, for custom or modified stock parts used on the final competition robot is provided. Parts of the robot could be reproduced from the set of engineering drawings provided with some trouble. The engineering drawing set is presented in a loosely organized fashion.
<p>7-9pts.</p> <ul style="list-style-type: none"> The description of research provides a clear picture of how the team conducted their research, areas the team's research focused on and why they focused on those areas. The description of research is presented in an organized fashion, but lacks detail. 	<p>19-27pts.</p> <ul style="list-style-type: none"> The refinement description has a detailed explanation of designs and concepts that were explored, revised, and used in the process of designing and building the final competition robot. An evolution of the final robot design is clearly explained in an organized fashion. 	<p>7-9pts.</p> <ul style="list-style-type: none"> A detailed analysis of major structural components in the final competition robot identifying possible part failure points including the ultimate failure loading. An explanation of how the possible failure points have been mitigated in the final competition robot design is present. 	<p>19-27pts.</p> <ul style="list-style-type: none"> The engineering drawing set provides a set of drawings, including pertinent dimensions, for custom or modified stock parts used on the final competition robot. The major components of the final competition robot could be reproduced from the set of engineering drawings provided. The engineering drawing set is presented in an organized fashion.
<p>10pts.</p> <ul style="list-style-type: none"> The description of research provides a clear, detail oriented description of how the team conducted their research, areas the team's research focused on and why they focused on those areas. The description of research is presented in a well organized fashion. 	<p>28-30pts.</p> <ul style="list-style-type: none"> Refinement description is a finely detailed comprehensive explanation of all designs and concepts that were explored, revised, and used in the process of designing and building the final competition robot. A comprehensive evolution of the final robot design is clearly explained in an organized fashion. 	<p>10pts.</p> <ul style="list-style-type: none"> A detail oriented analysis of all individual structural components in the final competition robot identifying possible part failure points including the ultimate failure loading. A clear and organized explanation of how the possible failure points have been mitigated in the final competition robot design. 	<p>28-30pts.</p> <ul style="list-style-type: none"> The engineering drawing set provides a complete set of drawings, including all pertinent dimensions, for all custom or modified stock parts used on the final competition robot. The engineering drawing set is presented in a clear and organized fashion. Effectively the whole robot could be reproduced from the set of engineering drawings provided.
<p>Research Methods Points Earned 0-10pts.</p>	<p>Refinement Points Earned 0-30pts.</p>	<p>Structural Analysis Points Earned 0-10pts.</p>	<p>Engineering Drawing Set Points Earned 0-30pts.</p>

Material Selection	Manufacturing Plans	Assembly Models	Weapon System Details
<p>0-6pts.</p> <ul style="list-style-type: none"> • Details on the materials the final competition robot used are not present. • Materials used are stated with little or no explanation as to why they were used. • Tradeoffs between materials used and ones that were considered are vague or not presented. 	<p>0-9pts.</p> <ul style="list-style-type: none"> • The manufacturing plan is not present in the documentation binder. • The manufacturing plan provided is vague in describing how parts of the final competition robot were built, modified, or procured. • The manufacturing plan provided is hard to follow. 	<p>0-6pts.</p> <ul style="list-style-type: none"> • The assembly models are missing. • The assembly models provide a 3-D view of some mechanical systems on the final competition robot, some systems are not documented. • The assembly models are confusing and/or the order they are in is hard to follow. 	<p>0-3pts.</p> <ul style="list-style-type: none"> • The weapons system details are missing. • The weapon system details provide a vague idea of how the system functions. Data on the function and strength of the weapon system is confusing and/or presented in a hard to follow way.
<p>7-12pts</p> <ul style="list-style-type: none"> • Materials used to construct the final competition robot are stated with vague explanations as to why the materials were used. • Tradeoffs between materials used and ones that were considered are presented. 	<p>10-18pts.</p> <ul style="list-style-type: none"> • The manufacturing plan provides details on how parts of the final competition robot were built, modified, or procured. • The manufacturing plan is presented in an organized format. 	<p>7-12pts.</p> <ul style="list-style-type: none"> • The assembly models provide a 3-D view of most mechanical systems on the final competition robot. • The assembly models provide vague idea of how the robot was designed and built. 	<p>4-6pts.</p> <ul style="list-style-type: none"> • The weapon system details provide a look at how the system functions. Relevant data on the function and strength of the weapon system is present but hard to follow.
<p>13-18pts.</p> <ul style="list-style-type: none"> • All materials used to construct the final competition robot are stated with explanations as to why the materials were used. • Tradeoffs between materials used and ones that were considered are presented in a clear and organized fashion. 	<p>19-27pts.</p> <ul style="list-style-type: none"> • The manufacturing plan provides a look at how every part of the final competition robot was built, modified, or procured. • The manufacturing plan is presented in a clear and organized format. 	<p>13-18pts.</p> <ul style="list-style-type: none"> • The assembly models provide a 3-D view of all mechanical systems and sub-assemblies on the final competition robot. • The assembly models provide detail on how the robot was designed and built in an orderly fashion. 	<p>7-9pts.</p> <ul style="list-style-type: none"> • The weapon system details provide insight into how the system functions. Relevant data on the function and strength of the weapon system is explained. • The weapon system details are presented in an organized fashion.
<p>19-20pts.</p> <ul style="list-style-type: none"> • All materials used to construct the final competition robot are stated with detailed explanations as to why the materials were used. • Tradeoffs between materials used and ones that were considered are prevalent and presented in a clear and organized fashion. 	<p>28-30pts.</p> <ul style="list-style-type: none"> • The manufacturing plan provides a comprehensive look at how every part of the final competition robot was built, modified, or procured, and why the team chose to manufacturing their robot the way they did. • The manufacturing plan is presented in a clear highly organized and logical format. 	<p>19-20pts.</p> <ul style="list-style-type: none"> • The assembly models provide a comprehensive 3-D view of all mechanical systems and sub-assemblies on the final competition robot. • The assembly models provide clear detail on how the robot was designed and built, in an organized fashion. 	<p>10pts.</p> <ul style="list-style-type: none"> • The weapon system details provide an in depth look at how the system functions. All relevant data on the function and strength of the weapon system is explained in great detail. • The weapon system details are organized in a logical format that is clearly easy to follow.
<p>Material Selection Points Earned 0-20pts.</p>	<p>Manufacturing Plans Points Earned 0-30pts.</p>	<p>Assembly Models Points Earned 0-20pts.</p>	<p>Weapon System Details Points Earned 0-10pts.</p>

Drive System Details	Power System Details	Wiring Schematic	Testing Results
<p>0-3pts</p> <ul style="list-style-type: none"> The drive system details are missing. The drive system details provide a vague idea of how the system functions. Data on the function and strength of the drive system is confusing and/or presented in a hard to follow way. 	<p>0-3pts.</p> <ul style="list-style-type: none"> The power system details provide a vague idea of how the system functions. Data on the function and strength of the power system is confusing and/or presented in a hard to follow manner. 	<p>0-3pts.</p> <ul style="list-style-type: none"> The wiring schematic uses industry standard symbols where possible. Components and wires have few or no labels and/or are difficult to follow. A legend detailing symbol meanings is not provided. 	<p>0-1pts.</p> <ul style="list-style-type: none"> The testing results section provides little or no detail on what testing was done and what the results were. The collection of testing data shows little or no organization.
<p>4-6pts</p> <ul style="list-style-type: none"> The drive system details provide a look at how the system functions. Relevant data on the function and strength of the drive system is present but hard to follow. 	<p>4-6pts.</p> <ul style="list-style-type: none"> The power system details provide a look at how the system functions. Relevant data on the function and strength of the power system is present but hard to follow. 	<p>4-6pts.</p> <ul style="list-style-type: none"> The wiring schematic uses industry standard symbols where possible. Components and wires are labeled, but are confusing to follow. Not all symbols used in the schematic are in the legend. 	<p>2-3pts.</p> <ul style="list-style-type: none"> The testing results section provides a vague account of testing done and the results from that testing. The collection of testing data has some organization but is confusing to follow.
<p>7-9pts</p> <ul style="list-style-type: none"> The drive system details provide insight into how the system functions. Relevant data on the function and strength of the drive system is explained. The drive system details are presented in an organized fashion. 	<p>7-9pts.</p> <ul style="list-style-type: none"> The power system details provide insight into how the system functions. Relevant data on the function and strength of the power system is explained. The power system details are presented in an organized fashion. 	<p>7-9pts.</p> <ul style="list-style-type: none"> The wiring schematic uses industry standard symbols where possible. All components and wires are clearly labeled and organized in a logical format. A legend detailing symbol meanings for symbols used in the schematic is provided. 	<p>4pts.</p> <ul style="list-style-type: none"> The testing results section provides an account of testing done, which systems were tested, what configurations were tested, and what were the results of the testing. The collection of testing data is presented in an easy to follow format.
<p>10pts.</p> <ul style="list-style-type: none"> The drive system details provide a comprehensive look at how the system functions. All relevant data on the function and strength of the drive system is explained in great detail. The drive system details are organized in a logical format that is clearly easy to follow. 	<p>10pts.</p> <ul style="list-style-type: none"> The power system details provide a comprehensive look at how the system functions. All relevant data on the function and strength of the power system is explained in great detail. The power system details are organized in a logical format that is clearly easy to follow. 	<p>10pts.</p> <ul style="list-style-type: none"> The wiring schematic uses industry standard symbols where possible. All components and wires are clearly labeled and organized in a logical format that is clearly easy to follow. A legend detailing symbol meanings is provided giving clear meaning to all symbols on schematic. 	<p>5pts.</p> <ul style="list-style-type: none"> The testing results section provides a detailed account of testing done, what systems were tested, what configurations were tested, who tested them and what were the results of the testing. The collection of testing data is presented in an organized and clearly easy to follow format.
<p>Drive System Details Points Earned 0-10pts.</p>	<p>Power System Details Points Earned 0-10pts.</p>	<p>Wiring Schematic Points Earned 0-10pts.</p>	<p>Testing Results Points Earned 0-5pts.</p>

Response to Debriefing	Evidence of Safety Procedures	Evidence of Teamwork	Evidence of Skills Learned
<p>0-7pts.</p> <ul style="list-style-type: none"> • Student response to questions shows a lack of understanding of the topic/activity being discussed. • Students are vague about their role in team activities. 	<p>0-4pts.</p> <ul style="list-style-type: none"> • Students make reference to unsafe activities they engaged in during team activities. • Students make little or no reference to safety procedures followed during the course of team activities. 	<p>0-4pts.</p> <ul style="list-style-type: none"> • Students make confusing or incoherent references to instances when the team pulled together to complete work on schedule. • Students make confusing or incoherent references instances when individuals stepped up and pulled the team back on course, solved difficult problems, or put differences aside for the betterment of the team, etc. 	<p>0-4pts.</p> <ul style="list-style-type: none"> • Students make no mention of skills they gained or lessons they learned as a result of team activities. • Students mention activities they engaged in while contributing to the team's competitive effort.
<p>8-15pts.</p> <ul style="list-style-type: none"> • Students respond to questions with vague points that may be confusing to follow. • Students are able to express their role in team activities. 	<p>5-9pts.</p> <ul style="list-style-type: none"> • Students make reference to safety procedures with little or no explanation. 	<p>5-9pts.</p> <ul style="list-style-type: none"> • Students make vague references to instances when the team pulled together to get jobs done in order to complete the project on schedule. • Students vaguely mention instances when individuals stepped up and pulled the team back on course, solved difficult problems, or put differences aside for the betterment of the team, etc. 	<p>5-9pts.</p> <ul style="list-style-type: none"> • Students vaguely describe skills they gained or lessons they learned as a result of activities they engaged in while contributing to the team's competitive effort.
<p>16-23pts.</p> <ul style="list-style-type: none"> • Students are able to respond to questions in with clear and concise points. • Students are able to express their role in team activities. 	<p>10-14pts.</p> <ul style="list-style-type: none"> • Students are able to explain safety procedures that were followed during the course of team activities. 	<p>10-14pts.</p> <ul style="list-style-type: none"> • Students cite examples when the team pulled together to get jobs done in order to complete the project on schedule. • Students mention instances when individuals stepped up and pulled the team back on course, solved difficult problems, or put differences aside for the betterment of the team, etc. 	<p>10-14pts.</p> <ul style="list-style-type: none"> • Students are able to communicate skills they gained or lessons they learned as a direct result of activities they engaged in while contributing to the team's competitive effort.
<p>24-25pts.</p> <ul style="list-style-type: none"> • Students are able to respond to questions in an articulate manner with clear and concise points that demonstrate a deep understanding of the topic being spoken to. • Students are able to fluently express their role/engagement in team activities. 	<p>15pts.</p> <ul style="list-style-type: none"> • Students are able to explain in great detail safety procedures, in their proper sequences, that were followed during the course of team activities. 	<p>15pts.</p> <ul style="list-style-type: none"> • Students cite detailed examples when the team pulled together to get jobs done in order to complete the project on schedule. • Students detail instances when individuals stepped up and pulled the team back on course, solved difficult problems, or put differences aside for the betterment of the team, etc. 	<p>15pts.</p> <ul style="list-style-type: none"> • Students are able to articulately communicate skills they gained or detailed lessons they learned as a direct result of activities they engaged in while contributing to the team's competitive effort.
<p>Response to Debriefing Points Earned 0-25pts.</p>	<p>Evidence of Safety Procedures Points Earned 0-15pts.</p>	<p>Evidence of Teamwork Points Earned 0-15pts.</p>	<p>Evidence of Skills Learned Points Earned 0-15pts.</p>

Engineering Notebook Evaluation FAQ's/ Commonly Asked Question

1. What do I do if I have no information for one or more sections of this documentation binder?
 - a. You will need to provide a detailed description as to why you do not have anything to document for the sections in which you have no documentation.
 - b. It would be preferable to discuss with your Advisor the steps necessary to complete a section..

 2. How many compositions are required by the team?
 - a. Core team members must be identified and each core team member must complete a composition, the extended team is not required to complete compositions however their contribution was important and should be included.
 - b. The core team is defined as a group of individuals who were indispensable in any or all parts of the team's effort during the current Bots IQ Season.
 - c. The extended team is defined as a group of individuals who contributed to the team's effort in some way, though their contributions may have been small.

 3. What are engineering drawings?
 - a. Engineering drawings have three orthographic views, typically top, front, and side. Also an isometric view could be provided if desired.
 - b. The purpose of the engineering drawing is to accurately communicate all features of a part in order to have the part produced.
 - c. There should be engineering drawings for all custom and modified stock components used on the final competition robot.
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Ver 1.2 fixed bug in chart formatting

Ver 1.3 added NOTE to Page 1