



Southwestern Pennsylvania BotsIQ

They're building robots.....Were building a workforce. How's that for ingenuity?

Recommended Tools and Websites

Recommended Basic Tools:

- Safety Glasses
- Screwdrivers, (set of Regular and Phillips)
- Allen Key (SAE) set
- Pliers (regular and needle nose)
- Wire cutters and strippers
- Automatic Center punch
- Dial Caliper
- Combination Wrench Set (SAE)
- 6" or 8" Flat file
- 6" or 8" Round file
- Metal Ruler or Tape Measure
- 16 oz Ball Peen Hammer
- Hacksaw
- Punch and Chisel Set
- 29 piece drill bit set
- Multi-meter
- 12 volt test light
- Soldering Iron and Rosin Core Solder
- 3/8" Socket and Ratchet Set

Where to get parts and materials:

- Tower Hobbies.....Motors, controllers, wheels <http://www.towerhobbies.com>
- <http://www.robotpower.com>
- Electronic Goldmine ... Constantly changing source for electronics, motors, etc. ... <http://www.goldmine-elec.com>
- Servocity ... R/C radios, transmitters and receivers, connector wires. Servos.... <http://www.servocity.com>
- RobotZone.Com ... misc robot parts and servos. <http://www.robotzone.com>
- Gears EDS... replacement parts for Gears Prototyping Set. Motors, pneumatics, speed controllers. (parts need to be purchased through either Starbot or a public/private school)... <http://www.gearseds.com>
- Harbor Freight Tools ... Inexpensive tools and equipment. <http://www.harborfreight.com>
- Northern Tools ... <http://www.northerntools.com>[http://www.northerntools.com/](http://www.northerntools.com)
- Online metals ... small quantities of metals . . . <http://www.onlinemetals.com>
- Metals Depot ... small quantities of metals ... <http://www.metalsdepot.com>



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- Battery Space ... all types of batteries ... <http://www.batteryspace.com>
- Cheap Batteries ... <http://www.cheapbatteries.com>
- Battery Mart <http://www.batterymart.com>
- Pitsco ... All types of Kits... <http://www.pitsco.com>
- Robot Kits ... <http://www.robotkits.com>
- Hobby Engineering ... More Robot Kits ...
<http://www.hobbyengineering.com>
- WHEELS <http://www.skywaywheels.com>
- More motors and wheels... <http://www.lynxmotion.com>
- MSC Direct. Tools and Equipment and source for gears, pulleys, belts, etc..
<http://www1.mscdirect.com>
- Horizon Hobbies – for the Spektrum Radio <http://www.horizonhobby.com>
- McMaster-Carr Industrial Supply. Tools, raw materials, miscellaneous tools and equipment. Considered the "Engineer's Bible".
..<http://www.mcmaster.com/>