

**Permanent Address**  
4605 NE Alberta Ct  
Portland, OR, 97218  
(503) 442-8793

**PENELOPE  
BIGGS**  
pcbigs@wpi.edu

**School Address**  
WPI Box Number 436  
100 Institute Road  
Worcester, MA, 01609

**OBJECTIVE** A summer job working with computers

**EDUCATION** Bachelor of Science, Computer Science and Robotics Engineering  
Worcester Polytechnic Institute, Worcester, MA, expected May 2016

**AWARDS** National Center for Women in Information Technology National Winner (2012)  
WPI/FIRST Paul Allaire Future Leadership Scholarship  
Benson Polytechnic High School/Adam Kreiger Award for Science Excellence

**SKILLS** **Operating Systems:** Windows XP and 7; Linux distributions Fedora and Ubuntu.  
**Languages & Software:** C/++; Python; Scheme; Solidworks; Autodesk Inventor;  
LaTeX; HTML; Arduino; LEGO Mindstorms; GIMP; Microsoft Office, LibreOffice,  
and Google Drive: Documents, Spreadsheets and Presentations; Simple Video editing  
**Other:** Manual machining including lathe, mill, and drill press; Familiarity with CNC  
design; Welding; Soldering

**EXPERIENCE** **Camp Counselor & Teacher** Summers 2011-12  
Girls Get Innovative Technology! Hillsboro High School, Hillsboro, OR

- Assisted in planning and running a camp for middle school girls in technology
- Taught classes in logic gates, HTML, soldering, water pumps, GameMaker, robotics, and programming
- Created curriculum for 3-hour robotics class including that involved building and programming a successful robot
- Created curriculum for programming pre-assembled robots in NXT-G, logic gate analysis, water pumps, HTML, and electronic jewelry

**Robotics Club President and Team Captain** 09/2008-06/2012  
Benson FIRST Robotics Teams; Benson Polytechnic High School, Portland, OR

- Design, fabricate and program robots for FIRST Tech Challenge and FIRST Robotics Challenge; Competed at the State competition 4/4 years, won Innovate Award at state level for 2011 robot
- Lead team meetings and discussions, including handling inter-team conflict and setting timeline for projects
- Kept well-documented engineering notebook detailing robot designs, methodology and programming
- Teach programming to team members and robotics community

**Build Volunteer** 8/2010-3/2011  
Free Geek, Portland, OR

- Inspect, test, and build computers from recycled parts
- Install Ubuntu and open source software on computers for donations

**ACTIVITIES  
AND HOBBIES** Volunteer at FIRST LEGO League Tournaments, National Novel Writing Month, bouldering at WPI Cave, Women in Computer Science, Gay-Straight Alliance