

Liam T. Berti

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Profile

Electrical engineering student with 1+ year experience with circuit analysis, design and implementation; 2+ years of experience with programming in MATLAB, C, C++, Java and Python. Proficient with Linux and Unix-like systems.

Education

University of Pittsburgh, Pittsburgh, PA.

2015 – Present

Bachelor of Science in Electrical Engineering

GPA: 3.56/4.00. Expected Graduation: December 2017.

Delaware County Community College, Media, PA.

2013 – 2015

GPA 3.82/4.00. Graduated: December 2015

Relevant Projects

Autonomous Rover

Fall 2015 – Present

University of Pittsburgh Robotics and Automation Society

- Developed a web streaming server to display live feed from autonomous rover's camera, with smartphone user control.
- Created a circuit to allow the rover's computer to communicate with Arduino controlled GPS and accelerometer modules.

Artbot

Fall 2015 – Present

University of Pittsburgh Robotics and Automation Society

- Lead electrical engineering team in finding and purchasing motors and power supplies for autonomous kinetic artwork.
- Implemented a software PI controller for improving the Artbot's movement.
- Installed, set up, and maintained a Debian GNU/Linux server integrated in the Artbot.

RoboSim Website: robotsim.me

Spring 2016 – Present

University of Pittsburgh Robotics and Automation Society at SteelHacks 2016

- Robotics simulation written in 36 hours with Python 3 and Blender that simulates a robot with sensors and physics and allows the user to transfer code written in the sim to hardware. Hardware runs identical to simulation.
 - First place, and best use of hardware award at SteelHacks: Pittsburgh's only Major League Hacking sponsored hackathon.
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Relevant Skills and Awards

- Prototyping circuits, troubleshooting circuit design, and 3D printing.
- Data analysis and programming with MATLAB, Python, C, C++, Java, Lisp, and Microsoft Excel.
- Website development with JavaScript, HTML5, CSS3.
- System administration of Linux, Microsoft Windows, and UNIX servers.
- Dean's List 2013 – present
- Eagle Scout Rank, Boy Scouts of America

