Liam T. Berti

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Objective

Summer employment as an electrical/electronic engineering intern.

Education

University of Pittsburgh, Pittsburgh, PA.   **2015 - Present**
Bachelor of Science in Electrical Engineering
Minor in Computer Science
GPA: 3.53/4.0 Expected Graduation: December 2017

Delaware County Community College, Media, PA.   **2013 - 2015**
GPA 3.82/4.00 Graduated: December 2015

Relevant Projects

Rover Robot

- University of Pittsburgh Robotics and Automation Society 2015 - 2016
- Semi-autonomous rover modeled after hazard containment robots.
- Developed a web streaming server to display live video from the robot's camera, with mobile support.
- Created a circuit to allow the rover's computer to communicate with sensors interfaced with a microcontroller.

RoboSim
robosim.me

- 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.

IARC 7

- University of Pittsburgh Robotics and Automation Society 2016 - Present
- International Aerial Robotics Competition, Mission 7
- Mission: Construct a flying autonomous robot to herd semi-randomly moving roombas on a gymnasium floor to a specified location without the use of SLAM or GPS techniques.
- Currently in the software implementation stage. Using C++, the Robot Operating System, and Python to establish a functional prototype to be simulated in a software environment.

Skills

- Prototyping circuits using common CAD tools, troubleshooting circuit design.
- Data analysis, and software engineering with MATLAB, Python, C/C++, Java, Lisp. Some Assembly language experience.
- System administration of UNIX, GNU/Linux, and Windows servers. Bash/Python scripting.
- Website development with JavaScript, HTML, CSS.
- LaTeX, Git, project management, presentation writing.
- Intermediate Spanish language.
- Basic-intermediate Japanese language, currently studying to take JLPT.

Awards

- Dean's List 2013 - Present

- Eagle Scout, Boy Scouts of America