ELLIOT J. BERMAN

435 Virginia Ave. Unit 505, Indianapolis, IN 46203 | 1301 3rd St, West Lafayette, IN 47906
(317) 345-1942 | elliot@elliotjb.com | github.com/edjubuh

EDUCATION

Purdue University, West Lafayette, IN December 2018
Bachelor of Science in Computer Science with Honors Overall GPA: 3.93
Concentrations in Systems Programming and Database and Information Systems
Bachelor of Science in Statistics
Current Coursework:

- Systems Programming
- Information Systems
- Introduction to the Analysis of Algorithms
- Embedded Operating Systems for Robotics
- Statistical Theory
- Climate, Science and Society

EXPERIENCE

GE Transportation, Melbourne, FL May 2016 – July 2016
Software Engineering Internship

- Designed and developed C#/WPF-based software loading process for LOCOTROL XA enabling customization of loading sequence for use by development team and customers
- Worked with senior engineers to design and develop a C++ based test suite using for a log parsing utility within the LOCTROL XA code base for an international team
- Technical skills used: C#/WPF, C/C++ and debugging in Green Hills INTEGRITY, TortoiseSVN

SKILLS

C/C++, Python, embedded real-time operating systems, CoffeeScript, Linux-based operating systems, computer vision library OpenCV, C# WPF and ASP.NET, Java, Git, GNU Make, Advanced Installer, ZMQ, Phabricator software development utility, Scrum methodology

LEADERSHIP AND ORGANIZATIONS

Purdue Association for Computing Machinery SIGBots August 2015 – Present
PROS Development Team Lead pros.cs.purdue.edu

- Coordinate and assist students in developing utilities and components of an educational robotics platform development environment
- Lead 10 students to create new FreeRTOS development environment supporting new VEX platform
- Develop Kalman Filter for localization using mice and a communications platform for Raspberry Pi and RTOS
- Create cross-platform command line interface in Python for templating and flashing binaries
- Develop plugin for Atom Editor to provide user interface for developing C/C++ projects

Purdue Lunabotics August 2015 – May 2016
Autonomy Group Lead

- Directed team responsible for autonomous functions of rover in NASA's Robotic Mining Competition
- Developed image processing program that utilized infrared range finders and cameras to localize location

Zionsville Community High School Robotics Club August 2010 – May 2015
Officer and Co-President

- Advanced through state competition to the VEX Robotics World Championship in 2013 and 2015
- Mentored students in building and programming their robots during school year and as camp counselor
- Served as student-leader in organizing and administrating competitions run by the club

Boy Scout Troop 358 December 2007 – May 2015
Troop Guide and Troop Webmaster

- Mentored new scouts through the first several ranks in scouting
- Achieved Eagle Scout rank in September 2013