

ELLIOT J. BERMAN

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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