Current Address:
10075 Park Meadows Drive, Apt 109
Lone Tree, Colorado 80124

Drew Locketz
Locketz.drew@gmail.com
(612)719-8188

Permanent Address:
4255 Larch Place North
Plymouth, MN 55442

EDUCATION

University of Denver, Denver, CO
Daniel Felix Ritchie School of Engineering and Computer Science
Electrical Engineering, Specification in Robotics

Graduation Date: **June 2017**
Cumulative GPA: **3.77/4.0**

RELEVANT SKILLS

Project Management:
- Created and executed multiple project plans including detailed requirements definitions, systems CONOPS, and more
- Practiced in the use and development of Gantt Charts with Microsoft Project and other management tools
- Industry experience creating an initial MVP, designing for production, large scale production, and logistics fulfillment
- Heavy Course work on systems engineering with an emphasis on a real-world client based experience

Software Development:
- Proficient with the development using C++, C, Arm-Assembly, Java, Python, HTML, MATLAB, Simulink, and LabView
- Versed in development on Windows and Unix based operating systems in server, desktop, and embedded applications
- Familiar with a wide variety of communication protocols such as HTTP, USB, I2C, SPI, SAS, and PCIe
- Experienced in embedded systems design and architecture with ARM, PIC, and ATMEL devices

Hardware Development:
- Well versed in high complexity, high power, and high speed digital PCB design from initial conception to production
- Experienced with schematic capture and board layout facilities on both the Cadence and Eagle platforms
- Competent in the use of electronics laboratory equipment such as multimeters, logic analyzers, and oscilloscopes
- FPGA-based development and simulation with Verilog using Altera Cyclone and Lattice products
- Knowledgeable in control systems design and simulation with heuristic and equation of motion based control methodologies

Mechanical Development:
- Undergraduate course work in mechanical engineering topics such as Statics, Dynamics, and Mechanics of Materials
- Designed and printed parts on MakerBot, Stratasys, Ultimaker, Flashforge and Prusa I3 three-dimensional printer systems
- Experienced in designing complex systems in Solidworks, Autodesk Inventor, and Autodesk Fusion CAD software suites

WORK EXPERIENCE

Hewlett Packard Enterprise
Hardware Design Engineer

May 2017 – Present
Colorado Springs, CO

- Participated in creation of an enterprise level RAID controller node implementing DFT and DFM concepts
- Routed high speed signals, and designed a power plane solution for noise power distribution
- Created and performed a design validation testing plan to ensure the proper operation of VP and DP PCA
- Designed and preformed environmental testing including NEBS, four corners, and shake table testing

Tekdry INC.
Engineering Intern

January 2015 – June 2016
Broomfield, CO

- Increased company productivity by revamping previous code to have higher success rates using NI Labview software
- Worked on embedded microcontroller systems finding ways to improve the efficiency of the machines for higher profit
- Facilitated and oversaw aspects of large scale production and sourcing while managing small business ventures

LEADERSHIP AND AFFILIATIONS

Integration Course
Team Leader

January 2016 – February 2016
Denver, CO

- Organized production schedule to meet given deadlines
- Worked to build a team dynamic and encourage communication between engineers

FIRST Robotics Team
Assistant Team Leader

January 2012 – January 2013
Hopkins, MN

- Organized and directed team meetings to discuss items ranging from logistics to design
- Ensured adherence to the given rules and regulations

ADDITIONAL INFORMATION

Honors: Hornbeck Scholar, Dean Scholarship ('13-'17), Dean's List ('13-'17)
Organizations: ASME (Treasurer), IEEE
Interests: Camping, Fishing, Reading, Dogs, 3D Printing, and Home Automation