ARTEM KULAKEVICH

Artem3@pdx.edu • 503.750.3225 • Beaverton, OR
linkedin.com/in/artem-kulakevich/

EDUCATION

Master of Science Degree, Electrical Engineering **GPA: 4.00 / 4.00** **June 2019 – Present**
Portland State University Portland, OR

Bachelor of Science Degree, Electrical Engineering **GPA: 3.97 / 4.00** **September 2017 – June 2020**
Portland State University *Summa cum laude* Portland, OR

WORK EXPERIENCE

Production Specialist III **December 2016 – Present**
Micro Systems Engineering, Inc. Lake Oswego, OR

- Certified to run and troubleshoot at least 8 major production processes; more certifications than any other specialists on shift.
- Analyze electrical failure using tools like Eagle and Allegro and troubleshoot mechanical systems using knowledge conveyor systems and mechanical alignment. Repair at least 1 mechanical system or electrical fixture per week.
- Lead a team of 8 production specialists multiple days a week by designating tasks for each person and identifying stalls in the workflow. Deal with communication issues between engineering and production staff.

Module Imaging Cell Internship Project **September 2019 – January 2020**
Micro Systems Engineering, Inc. Lake Oswego, OR

- Updated and validated LabVIEW software used in automation of 3 different 4-axis production imaging robots that reduced chances of collision. Added data logging which is used to process 500 – 1000 medical devices daily.
- Modified an outdated workflow process for defibrillator product by retraining a 6-axis Epson robot. Reduced human handling and process time for 200 – 600 defibrillators per week.
- Improved documentation by updating 3 design documents, creating a new record document, and a new standard operating procedure document.

SKILLS

- C++ / C
- Embedded Rust
- Oscilloscope
- Verilog
- LabVIEW 12.0
- OCEAN Scripting
- ARM Assembly
- ADC, SPI, I2C
- IDE Debugger
- Git (Github)
- Linux (Ubuntu)
- Motor Control

PROJECTS

High Assurance Self Balancing Robot - Senior Capstone **January 2020 – June 2020**
Project Sponsor: Galois, Inc. Portland, OR

- Built and programmed a self-balancing robot to explore methods of control and verification. Modified a Rust compiler in a verification tool called Kind2 to generate embedded Rust code from a language called Lustre.
- Used Kind2 to generate embedded Rust PID and Fuzzy logic controllers from Lustre and found Rust PID to be within 5% of C++ controller for major characteristics. Sponsor's best performing project out of 3 different groups.

MIPS-lite Simulator **April 2020 – June 2020**

- Designed a 5-stage MIPS simulator in C++ with timing analysis, hazard mitigation, and forwarding.
- Tested the simulator with a given generic memory image. The simulator was able to perform data manipulation on memory image and produce results to terminal.

ARM Sitara AM335x 32-bit Processor **September 2019 – December 2019**

- Utilized ARM assembly and C to program a BeagleBone Black board to communicate with an RC8660 talker board over UART and a NewHaven LCD over I2C.
- Used datasheets and pseudo code to identify and plan modifications for peripherals. Was able to complete match all specifications using interrupts and added supplementary features for extra credit.

RELEVANT COURSEWORK

- CPU Architecture, Microprocessors 1 & 2, ASIC: Modeling, Verilog & FPGA Design, Formal Verification