Artem Kulakevich

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Education

Jun 2019 – Present **Master of Science, Electrical Engineering**, *Portland State University*, *Portland, OR.*
GPA: 4.00, *Expected: Jun 2021*

Sep 2017 – Present **Bachelor of Science, Electrical Engineering**, *Portland State University*, *Portland, OR.*
GPA: 3.97, *Expected: Jun 2020*

Work Experience

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

- Certified for all back-end production processes; more certifications than anyone in area.
- Team lead for back-end tasks, designated to assign tasks, and resolve communication issues.
- Introduce new production processes, workflow changes, and training through various engineering projects.
- Work on LabVIEW software changes for production imaging cell, including documentation and code reviews.

Skills

Languages C++, C, Rust, LabVIEW 12.0, ARM Assembly, Matlab, SystemVerilog

Programs Git, Linux (Ubuntu), LTspice, ModelSim, Cadence Virtuoso, Visual Studio, MS Office, SAP

Hardware Soldering, Oscilloscope (Tektronix/Rigol), Function Generator (Tektronix), Power Supply

Projects

Jun 2019 – Present **Module Imaging Cell**, *LabVIEW 12.0, log4net.*
Implemented software changes to automated imaging cell production software. Introduced log4net logging to from system to SQL, data collection to digital factory, and changes to state machine meant to reduce chances of collisions and product loss.

Rust Embedded PID, *Rust, C++, Arduino IDE.*
Wrote FFI compliant Rust PID controller library for use on Cortex-M0+ processor by Arduino IDE for two-wheeled pendulum robot.

CMOS Standard Library Design, *Virtuoso 6.1.8, OCEAN/SKILL.*
Designed standard library components using Cadence Virtuoso layout and ADE tools. Wrote scripts to simulate and measure output values with different temperatures, inputs voltages, and input rise times.

Interactive Cube, *C++, Soldering, MS Project, Git.*
Worked with a team to design a PCB for ATmega328p with necessary bypass, addressable LEDs, and IMU. Personally programmed processor to control LEDs using physical movement.

Class AB Audio Amplifier, *LTspice, Soldering, Oscilloscope.*
Designed a complimentary symmetry audio amplifier using mostly discrete BJTs to drive a 10W speaker. Soldered, designed and tested using homelab equipment.

ASIC Design, *SystemVerilog, Design Compiler, Git, Linux.*
Programmed multiple Verilog designs including FIFO, counters, and traffic lights. Synthesized the projects for comparison with simulation.

ARM Sitara AM335x UART / I2C, *ARM Assembly, C.*
Programmed BeagleBone Black to communicate with a RC8660 talker boards and NewHaven LCD using assembly and C.