Artem Kulakevich

Education

Jun 2019 - MS in Electrical Engineering, Portland State University, GPA: 4.00, Portland, OR.

Present Expected: Jun 2021

Sep 2017 - BS in Electrical Engineering, Portland State University, GPA: 3.97, Portland, OR.

Present Expected: Jun 2020

Work Experience

Dec 2016 - Production Specialist III, Micro Systems Engineering Inc., Lake Oswego, OR.

Present • Swing shift production lead:

- Assigned as the swing shift backend production lead; required to plan out tasks for half a dozen employees.
- Certified for and operate more production processes than the majority of other employees.
- Engineering Assistant:
 - Assist engineering team with introducing new production processes, workflow changes, and training.
 - Work on LabView software changes for production imaging cell, including documentation and code reviews.

Skills

Software LabView, C, Arduino, SystemVerilog, Arm Assembly

Hardware Soldering, Electrical Wiring, Oscilloscope, Function Generator, DMM, Schematics

General Excel, Word, PowerPoint, LaTex, LTSpice, Git

Projects

Module Imaging Cell - LabView Update, LabView, log4net, digital factory.

Implemented software changes to automated imaging cell, introducing log4net logging to SQL, data collection to digital factory, and changes to state machine meant to reduce chances of collisions and product loss.

Class AB Audio Amplifier, LTSpice, Soldering, Oscilloscope.

Converted a computer power supply into a bench top power supply. Designed a complimentary symmetry audio amplifier to drive a 10W speaker using personal oscilloscope and DMM.

Automated Work Cell - Biomonitor III, Epson Vision, Epson RC+ 6.0.

Taught an Epson 6-Axis ceiling mounted robot pick points, transfer points and vision fiducials for processing thousands of delicate 1 x 3 cm medical implants. Completed, verified, documented, and signed off for production.

Module Imaging Cell - Assembly, Lab View, Epson RC+, Soldering, Crimping.

Rebuilt multiple 4-Axis robots based on BOM, retaught robots for production, created documentation for teaching robots in the future. Continue to maintain robots and make improvements.

Blur Detection and Image Matching, Lab View NI Vision.

Created a VI that does image matching based on a template, converts a bounding box to an region of interest, and then uses the region of interest to find a blur average value that is then stored for use in a config file.

ASIC Design, System Verilog, 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.

Buck Converter, Oscilloscope, Matlab, Soldering.

Built buck converter, tested the design, and then improved the compensator stage design by using bode plot analysis.