Artem Kulakevich

Beaverton Oregon
503-750-3225
Artkulak@gmail.com

Education

Sep 2017 | Jun 2020 **BS in Electrical Engineering**, *Portland State University*, **GPA: 3.97**, *Portland, OR.*

Jun 2019 | Jun 2022 **MS in Digital IC Design, Test, and Validation**, *Portland State University*, **GPA: 3.97**, *Portland, OR.*

Work Experience

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

- Certified for and operate more production processes than the majority of other employees.
- Rebuilt and taught multiple automated imaging cells used in production for thousands of modules daily. Maintained and updated the imaging cell for new product types and configuration changes.

Skills

Software SystemVerilog, Arm Assembly, LabView, C, C++, Matlab, QuestaSim, NI Vision

Hardware Soldering, Electrical Wiring, Oscilloscope, DMM, Schematics

General Excel, Word, PowerPoint, LaTex, LTSpice, Jira, SAP BusinessObjects, Slack, Git

Projects

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 verification, documentation, and got the process signed off by multiple engineering departments.

Module Imaging Cell, *LabView, 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, *LabView NI Vision.*
Created a VI that does image matching based on a template, converts a bounding box to an ROI, and then uses the ROI to find a blur average value that is then stored for use in a config file.

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 boards to communicate with a RC8660 talker boards and NewHaven LCD using barebone assembly.

Buck Converter, *Oscilloscope, Matlab, Soldering.*
Built buck converter design, tested the design, and then improved the design by changing the compensator stage using bode plot analysis.

Fixture Build, *Soldering, Schematics, BOM.*
Built multiple fixture based on BOM and schematics used in testing production pacemakers and defibrillator. Completed probe alignment/compression testing, soldering, verification, and release.