

# Ryne F. Shelton

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LinkedIn  
myGit



## Education

- 2021 – present **BS/MS, Portland State University** Computer Engineering  
*ASIC Design, Embedded System Design, Machine Learning, Machine Vision*
- 2018 – 2021 **AS, Portland Community College** Electrical and Computer Engineering  
*Electrical Circuits and Digital Design.*

## Skills

- Coding **█** c, c++, Github, HDL, L<sup>A</sup>T<sub>E</sub>X, Linux, MacOS, Python (e.g., holoviews, Matplotlib, SciKit-Learn, SciPy, seaborn, tensorflow), risc, SVA, Windows)
- Hardware **█** Analog Circuits (Filters, Converters, Op-amps), Micro-controllers, Motors, FPGA's,
- Misc. **█** Academic research, consultation, Electron Scanning Microscope, Tool and Equipment Maintenance, Presenting, R&D, Scrum Project Workflow, Silicon Wafer Production, teaching, training

## Employment History

- 2024 **█ Hitachi High-Tech, Hillsboro, OR**  
Process Techician II *Operated and maintained semiconductor manufacturing etching tools, prepared silicon wafers for etching and imaging, operated scanning electron microscope tools to analyze process results, wrote program to compile process recipe files and present needed information to used that increased process validation and upload times.*
- 2023 **█ JenSort Hillsboro, OR**  
Machine Learning Consultant *Wrote firmware for fish hatchery sorter, trained a ML neural network to classify condition of fish eggs, wrote image capture firmware for obtaining pictures of conveyor fed fish eggs.*
- 2021 – 2023 **█ United States Geological Survey Portland, OR**  
Machine Learning Contractor *Trained ML neural-network to identify geothermal resources in the United States, Prepared conference paper, presented research at the 2022 HydroML conference.*
- 2022 **█ Datalogic Labs Eugene, OR**  
Machine Vision Engineering Intern *Trained ML neural-networks to locate codes (data-matrix, QR, bar-code) within a scanned image, engineering features to improve decode times and reliability, prepared reports and presentations of used methods and their results.*
- 2015 – 2018 **█ Artic Heating and Refrigeration Portland, OR**  
HVAC Technician *Maintained and installed HVAC systems and constructed walking in coolers.*

## **Employment History (continued)**

- 2014 – 2015       **Penhall** Portland, OR  
Operator *Operated Excavation Equipment to prepare site for building and infrastructure construction, operated concrete cutting and drilling tools and equipment for various utility systems*

## **Awards & Achievements**

- 2022       **McNair Scholar**
- 2019-2022       **Presidents List** Portland State University
- 2021-2022       **College Coach** Louis Stokes Alliance for Minority Participation
- 2021       **NASA's SCORE & STARR Research Fellowships** Oregon Space Grant Consortium
- 2020-2021       **Highest Honors** Portland Community College

## **References**

Available on Request