

EMELYN JAROS

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EDUCATION

University of Pittsburgh Swanson
School of Engineering 2020 -
GPA 3.98

- Mechanical Engineering BS
- Focus in Creative Writing
- Certificate in Innovation, Product Design and Entrepreneurship

Reynolds Community College
Ornamental Welding Course
2021

SKILLS

Programming

- Microcontrollers/C++
- MATLAB
- Node.js
- PLCs

Electronics

- Sensor, motor and LED specification and integration
- Electronic schematics
- Strategic wire management

CAD and Software

- Fusion360
- SolidWorks
- TouchDesigner
- Altium Designer

Fabrication

- Soldering
- 3D printing
- MIG welding
- Laser cutting and engraving
- Vacuum forming
- CNC router operation
- Basic wood and metal shop

WORK EXPERIENCE

Strella

R&D Mechanical Engineer – June 2024 – Present

- Design/maintain test chambers with environmental sensors, temperature control and gas-flow control used for fruit ripening research
- Design and fabricate instruments for gas sensor and post-harvest research
- Product development design work and validation testing
- Python and microcontroller programming

Aardvark Studios (formerly FKB Studios)

Creative Technologist – February 2022 – June 2024

- Designed and built complex electronic systems for interactive exhibits
- Programed microcontrollers and node.js applications for show control and interactives
- On-site tech integration for large scale builds
- Troubleshoot complex electronic systems and code
- Coordinated schedules and project specifications/requirements with project management and fabrication teams
- Led development of 3D printer capabilities
- Specified technical components and coordinate with vendors

Lutron Electronics

Manufacturing Facility Senior Project Mechanical Engineer – July 2021 - January 2022

- Supported and coordinated new product launches
- Led plant improvement projects
- Designed and rolled out configurable digital production instructions

Project Mechanical Engineer – Summer 2020 – Summer 2021

- Designed ergonomic tools for plant operators and product improvements
- Troubleshoot customer technical issues for problem jobs
- Manager of the department 3D printers

LED Living Technology

Product Development and Engineering Intern – Summer 2019

- Evaluated and sourced components for product redesign
- Designed a test system for LED lighting fixtures

University of Pittsburgh

Makerspace Program Manager – Fall 2018 - Spring 2020

- Responsible for organizing and running programs such as workshops and the Makerspace Speaker Series. Managed a team of other students
- Contributed to big picture planning and development of procedures

Pitt Summer Research Internship – Summer 2018

- Organized and ran the XProject Program to enable student run teams to participate in design/fabrication projects for faculty and outside sponsors
- Set up Pitt's digital fabrication Makerspace

Honors Art of Making Teaching Assistant – Spring 2018

- Prepared lessons, maintained Makerspace, assisted students with technical problems and worked with them to develop soft skills