**Zechariah Miller**

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**Education**

University of the Pacific, Stockton, CA Dec 2019

Bachelor of Science, Engineering Physics

RELEVANT CLASSES

Electrostatics; Electrodynamics; Thermal Physics; Modern Physics; Digital Signal Processing; Solid State Devices; Material Science; Electronic components; Dynamics of motion; Basic Chemistry; Digital Design theory; Circuit theory; Fluid Mechanics; Quantum Mechanics; Computational Physics; Statistics

**Skills**

Strong communication skills; Cooperative team player; Public Speaking

TOOLS: Drill press; Power drill; Screw gun; Table Saw; Hand tools Soldering gun; Heat gun; Multimeter;

LANGUAGES: C++; C#; MATLAB; Pspice; Python; French; LabVIEW;VHDL; Sheet Music; Fusion 360; AutoCAD;HTML5;CSS;Node.js;JavaScript

**Experience**

**◊** HAAS Automation: Software QA Engineer Nov ‘20- Ongoing

* Learned complex quickly with understanding to the whole software
* Reviewed software requirements before publishing
* Created utilities in C# to allow for better testing and G-code execution
* Scripted automated tests for an agile software release structure
* Manage Multiple Conflicting Deadlines
* Investigated user complaints, and tested new features with plan
* Coordinated cross department for design of new control system and parameter derivation
* Lead field issue investigation, and Solution project management.

**◊** Frito Lay: Supply Chain Leader Apr ‘20- Nov ’20

* Lead 30person team of direct reports and supervisory role to others for up to 12hr shift
* Created and implemented new role with 72% Decrease in CMS film waste and 196% decrease in Downtime of packaging machinery
* Managed Entire site unsupervised at a managerial capacity for over 800 employees in total
* Coordinate across multiple teams and departments in high pace environments to resolve conflict, downtime, and timetables
* Manage Multiple Deadlines
* Performed exit interviews, disciplinary meetings, and negotiated raises.

**◊** Frito-Lay: Maintenance Intern Summer 2019

* Created a comprehensive map of the compressed air system
* Designed a valve system to allow for isolation of various machines
* Coordinated efforts in a team environment
* Developed an event for 1800 people across an entire facility and departments

**Projects**

◊ Physics Thesis: Tunneling in Diodes March-Ongoing

Examining the process of reverse bias on Tunneling Diodes; Constructing a lab activity to derive the physical distance of the potential barrier; Providing background sufficient to describe the electrons not tunneling; Calculating the total number of electrons tunneling from measuring current

◊ Audio Loop Pedal February-Ongoing

Investigating current industry standards of pedals; Comprehensive parts list and cost analysis; Hybrid design of bottom up and top down; Developing gain structure architecture; Implement basic code of operation

◊ 3D Printer Plastic Compression Rating Fall 2017

Analyzed polymer structures related to plastics and performance; Operated compression testing equipment; Engaged in team meetings and testing; Improved better understanding of physical processes to team

◊ Highway Drive Cycle Fuel Economy Analysis Summer 2017

Created a program to derive the fuel economy, recoverable braking, energy spent; Researched areas to optimize in performance of vehicles.

**References-Professional**

Devin Ramstead

Commuter Community Association

President of the Commuter Community Association

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Iain Murphy

Pacific Alumni

Graduate student at University of the Pacific

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Joan Stafko

Native Daughters of the Golden West

Secretary of Native Daughters of the Golden West

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**References-Personal**

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