

Zechariah Miller

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Education

University of the Pacific, Stockton, CA
Bachelor of Science, Engineering Physics

Dec 2019

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 30 person 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

3601 pacific ave

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209.898.6409

Iain Murphy

Pacific Alumni

Graduate student at University of the Pacific

852 W Mendocino Ave

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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

Jeddiah Mack

Current Pacific Student

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Jonas Sung

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Max Martin

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