

Alex McClinton

Mechanical Engineering Student

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Education

Northern Arizona University - BS Mechanical Engineering August 2018-Present

Navy Precision Optical Interferometer (NPOI) Vacuum Manifold Capstone Project: Involved replacing the six fast delay line vacuum manifolds at NPOI. The original manifold was not secured and due to nonuniform forces, there was a moment on the flange that was holding the pipes to the vacuum pump. To compensate for this, bellows were implemented, but were installed incorrectly leading to the potential for a premature failure of the system. My team was tasked with designing a new manifold system that would be safe, reliable, allow for future expansion, and reduce downtime.

Expected graduation is Spring 2022

Cumulative GPA of 3.92.

Seven-Time Dean's list recipient: GPA of 3.5 or higher in at least 12 graded units in particular semester.

Experience

HeetSheild Inc January 2022 – Present

Research Engineering Intern: Helped design and build apparatus to test thermal diffusivity of material made by company. Also created the data acquisition system used to test the materials.

Safeway Inc. June 2019 – Present

Courtesy Clerk: Assisted cashiers with bagging orders. Cleaned the aisles and bathrooms.

Cashier: Ensured all items scanned correctly, bagged groceries, and assisted customers with questions. The closing shift included additional duties of: ensuring fridges were organized, endcaps were presentable, and cleaning the check stands before closing.

Self-Checkout Attendant: Oversaw six self-checkout machines ensuring that the customers were scanning the items correctly and assisting them as needed. Performed same closing duties as cashier.

Fry's Food and Drug October 2017 - July 2018

Courtesy Clerk: Performed the same tasks as above.

Skills

- Microsoft Office (Word, Excel, PowerPoint)
- Solidworks
- Matlab
- Labview DAQ
- Lathe
- Mill
- Limited fluency in German

Awards/Clubs

Employee of the Month (Safeway Inc) – Awarded to employees who are recognized as going above and beyond by their peers and direct management

Eagle Scout (Boy Scouts of America) – Learned various skills to earn 30 merit badges. Spent three years in leadership positions including Patrol Leader. Community service project was restoring an outdoor classroom for DeMiguel Elementary School in Flagstaff Arizona.

Order Of the Arrow (Boy Scouts of America) – Honor society of the Boy Scouts of America composed of Scouts that best exemplify the Scout Oath and Law in their daily lives as elected by their peers.

Den Chief Award (Boy Scouts of America) – Given to scouters who serve as den chief faithfully for at least a year, help Cub Scouts achieve the purposes of Cub Scouting and set a good example.

National Honor Society (BASIS High School) – For students with at least a GPA of 3.5. Focus on volunteering in the community.

First Tech Challenge (BASIS High School) – Teams design, build, and program robots to compete in an alliance format against other teams and make a presentation to solve a fictional problem posed by the organizers.