

Russel Stringham

480-825-6996

Rstringham1@gmail.com

Mechanical Engineering Student, NAU

<https://www.linkedin.com/in/russel-stringham/>

Objective

Performance-driven engineering student with proven academic achievements and early workplace experience. Seeking dynamic environment to grow my technical skills while contributing to organization success.

EXPERIENCE

June 2023 – August 2023 (Viasat)

Mechanical Engineering Intern – Cable Design Engineering

- Supported Cable Engineering Team to complete cable harness design packages for various programs
- Created 3D Models to generate fabrication drawings using SolidWorks intended to provide detailed guidance for the cable harness manufacturer
- Utilized Agile to generate change orders and initial requests for the completed design package which included the drawing and bill of materials
- Gained an understanding and implemented the correct note structure, wire list population, and wire diagram to create a clear and concise drawing
- Interfaced with suppliers and customers to ensure their requirements are met and offer better alternative solutions
- Participated in Engineering Peer Reviews to ensure as a team, we provided the cable harness manufacturer with the best quality design package
- Became familiarized with the IPC/WHAA-A-620 document to ensure all cables designed were acceptable and met their requirements

May 2022 – July 2022 (All Pro Fence LLC)

Fence Installer

- Worked with a team in install temporary fencing at job sites throughout the Maricopa County
- Involved in many 12+ hour days and emergency jobs to ensure all job were completed each day

June 2021 (AZ Youth Force, Boys and Girls Club)

STEM Internship

- Engaged with a diverse group of engineers/architects focusing on the Light Rail Development project/expansion in Phoenix, AZ
- Learned the building of a sturdy bridge and an architectural drawing of the Light Rail station
- Completed several civil engineering and environmental engineering activities

June 2019 – July 2020 (Hawkeye Electric, Inc.)

Electrical Laborer / Warehouse Assistant

- Assisted electrical engineers and electrician on job site preparation and installation
- Assisted the electricians with inventory, pulling wire, connecting PVC, and organizing material.
- Coordinated warehouse supply shop, facilitating streamline inventory controls, and expediting technician down time

2016-2020 (Campo Verde High School Accomplishments)

- Received the prestigious NAU Lumberjack Scholarship (3.5) unweighted cumulative GPA)
- JV, Varsity Soccer (2016-2019)
- Freshman, JV Baseball (2016-2018)
- Golden Scholars Award honoree – GPA of 3.5+ (2016-2020)

PROJECTS

Engineer Design Class: **RC Car Project (CAD)**

- Designed and constructed vehicles to complete mechanical tasks including picking up items like balloons and weights
- Problem solved, manufactured the assembly, and modeled in CAD as a team

Dynamics: **MATLAB Project**

- Created a MATLAB code that can display projectile motion
- Successfully completed the task to make a plot that was created from a script that included a for loop

Solid Works Project: **Creative Design**

- Designed a snowboard in Solid Works for final project for CAD class
- Involved solid work skills of constructing multiple parts and combining them in an assembly

Machine Design: **Gear Box Design**

- Designed a gear box consisting of two gears and three shafts
- Performed AGMA stress analysis on all gears and performed static and fatigue analysis on all shafts to meet the constraints of the project

COMMUNITY SERVICE

June 2018 – May 2020 (ICAN Positive Programs for Youth: Volunteer)

- Supported professional programs staff with school-based activities designed to engage and connect with youth and provide positive experiences and role modeling

December 2017 – 2020 (Chandler Compadres – Men’s Civic Organization: Volunteer)

- Assisted member-driven organization in collecting and distributing toys, food, and supplies to vulnerable youth and their families
- Help set up and break down event infrastructure for 1,800-person annual fundraiser

August 2019 – May 2020 (National Honors Society – Campo Verde High School)

- Volunteered at Feed My Starving Children
- The Giving Back Packs Community Service Project – filled backpacks with needed items that were then distributed to Dignity Health Medical Centers, Homeless Shelters, and Urgent Care Centers

EDUCATION

KEY SKILLS

Northern Arizona University
Flagstaff, Arizona (Senior Year)

CAD (SolidWorks)
Microsoft Excel
Microsoft Word

Campo Verde High School
Gilbert, Arizona (2020)

JIRA
Agile
IPC/WHMA-A-620