

TRAVIS HARRISON

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Mechanical Engineering Student with experience in engineering analysis, machining, 3d modeling, FEA, cost optimization, 3d printing, small group and intra-organizational communications and public speaking. Consistently volunteers for extra work and able to complete difficult projects in a timely fashion, under budget, and while still satisfying all customer requirements, typically above the quality that was requested.

EXPERIENCE

01/2021– PRESENT

MECHANICAL ENGINEERING CAPSTONE, NORTHERN ARIZONA UNIVERSITY

Worked directly with General Atomics to design a device to collocate the center of mass of a satellite with that of the hemispherical air bearing with a given budget of \$8,000. Primary focus on manufacturing, 3d printing, Solidworks modeling and finite element analysis, costing for manufacturing, etc. Personally machined or 3d printed many of the parts that will be used in the final iteration.

08/2021 – PRESENT

MACHINE SHOP SHADOW PROGRAM, NORTHERN ARIZONA UNIVERSITY

Taught by Perry G. Wood, PE to show more advanced techniques for machining and give access to additional tools. Completing work orders sent to the shop.

EDUCATION

DECEMBER 2021 (EXPECTED)

BACHELOR'S DEGREE IN MECHANICAL ENGINEERING, NORTHERN ARIZONA UNIVERSITY

Current GPA of 3.7, member of Tau Beta Pi

MAY 2016

ASSOCIATES OF THE ARTS, COMMUNICATIONS AND GENERAL, MARICOPA COMMUNITY COLLEGE

Graduated with honors, Dean's List, member of Sigma Chi Eta, Recipient of the Summit Student Leadership Award

SKILLS

- Significant experience with: Solidworks, Matlab, Ultimaker Cura, Fusion 360, Excel, Word
- Substantial shop experience, confident with manual mill and lathe, some experience with CNC machining, additional experience with various other tools
- Considerable experience with 3d printing on an FDM machine, some experience with SLA printing
- Analytical mindset and detail oriented
- Ability to communicate to all levels of organization including comfort with speaking in front of large groups
- Extremely determined to go above and beyond whenever possible

ACTIVITIES

- Boy Scouts
- Sigma Chi Eta Volunteer Projects
- Shadow program at the machine shop
- Hobby-level 3d printing
- Self-teaching additional engineering principles or skills during free time