

Lorenz Vios

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EDUCATION

Northern Arizona University – GPA: **3.66** Flagstaff, AZ
B.S. Mechanical Engineering
Expected to Graduate: May 2024

PROJECTS

Boeing Heat Exchanger Demonstrator Capstone September 2023 - Present
Financial Manager/CAD Engineer

- Designed a heat exchanger to represent isolated refrigerant in an Apache helicopter ECS
- Managed the team's budget and schedule
- Performed CFD simulations to test design before physical prototyping
- Analyzed heat transfer and pressure drop across heat exchanger

Rainwater Collection/Filtration Project January 2023 - May 2023
Editor/Financial Manager

- Designed an affordable rainwater filtration system for household use
- Responsible for pump selection and pipe flow analysis
- Performed cost analysis to justify project's financial feasibility
- Edited team documents for clarity, consistency, and conciseness

ORGANIZATIONS

Theta Tau - Omicron Epsilon Chapter
Inner Guard (Officer), Professional Development Chair, Academic Chair

- Administered the institution, amending, and voting of Chapter Bylaws.
- Ensured strict adherence to parliamentary procedure
- Mediated internal conflicts and other related matters.
- Organized mock interviews, resume workshops, industry visits
- Facilitated academic tutoring sessions between student members
- Provided resources to help members achieve academic success

SKILLS

- | | | |
|--------------|----------------|---------------------|
| • Solidworks | • C++ | • Microsoft Office |
| • MATLAB | • Ansys Fluent | • Technical Writing |