

MATT KETKAROONKUL

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SUMMARY OF QUALIFICATIONS

- Over 4 years of programming experience, especially in Python, MATLAB
- Enthusiastic about utilizing scientific computing and data analysis to drive engineering
- Strong leadership and project organization skills in engineering projects
- Proficient in GNU/Linux, L^AT_EX, and interfacing with electronics, Arduino with C-like programming
- Proficient in technical writing from three years of experience, providing in-depth, concise analysis

EDUCATION

University of Washington, Seattle, WA

Jun 2024 (Expected)

B.S. Aeronautical & Astronautical Engineering. (Intended)

GPA: 3.9

RELEVANT EXPERIENCE

HIT-SI Experiment, Seattle, WA

Jun 2021 - Present

Student Assistant

- A&A Department research studying plasmas used for nuclear fusion, sustainable energy
- Designed CAD models for experiment components
- Gained machine shop experience to help with assembly of experiment apparatus

NASA L'Space Mission Concept Academy, Virtual

Sep 2020 - Dec 2020

Safety Officer, Science Sub-Team

- Analyzed Mars InSight seismic data in MATLAB to present concept of seismic experiment in mission proposal to Enceladus
- Mobilized team effort to document engineering safety procedures, received professional-level ratings

Astronomy Undergrad Engineering Group, Virtual

Oct 2020 - Present

Club Liaison

- Volunteered to perform facility maintenance for Manastash Ridge Observatory (MRO)
- Documented minutes for weekly RSO meetings

SEDS SSPI Project Paper

Mar 2021 - Present

Project Manager

- Manager and contributor to project analyzing the future of manufacturing in space from policy and technical perspectives
- Organized team meetings, minutes, and action items

WORK EXPERIENCE

Code Ninjas, Newcastle, WA

May 2020 - Present

Coding Tutor

- Hosted virtual calls for coding lessons
- Wrote and taught 2 coding courses in Roblox, a popular game design platform
- Offered tours and coding demonstrations for prospective students, successfully enrolled over 5 students

AWARDS AND CERTIFICATIONS

Advanced Placement National Scholar

Jul 2019

The American Rocketry Challenge, National Finalist

May 2018

Siemens NX CAD Certification

Jan 2021