GRACE XIAO

MECHANICAL ENGINEER www.linkedin.com/in/xiaoyunjiao

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EDUCATION

9/24 - present

University of California, San Diego

Mechanical Engineering, B.S. w/ specialization in Controls & Robotics, GPA 4.00

TECHNICAL & SOFTWARE SKILLS

- Adobe
- C Code
- Fusion 350 CAD
- MATLAB
- Python
- Web (HTML, CSS,

- Photoshop
- Drill Press
- Google Sites
- Solderina
- Javascript)

AutoCAD

- Laser Cutter
- MS Suite

Machine Learning

- SolidWorks
- 3D Printing

EXPERIENCE

7/24 - 9/24

Obstacle Avoidance w/ Mobile Robots, La Jolla, CA

MAE 8 Final Project

- Performed obstacle avoidance and path planning using MATLAB's Robotics System Toolbox and Navigation Toolbox
- Evaluated model performance in both cuboid meshes and Simulation Description Format (SDF)

04/23 - 08/24

Al Venture Startup, Fremont, CA

Developer / Engineering Intern

- Implemented Python-based algorithms to develop AI chatbot for education
- Developed a responsive company website w/ HTML, CSS, and Javascript for product
- Presented product ideas and designed company logo with Adobe Photoshop

Activities

12/24 - present

Students for Exploration and Development of Space @ UCSD, La Jolla, CA

Controls Engineer on Liquid Bi-propellant Rocket Riptide

- · Finalized linear actuator design for use in positioning the engine within a gimbal system and 3D printed miniature model pieces for testing
- Tested actuator and servo motor using C code and Arduino
- Modeled & calculated the engine's expected degree of rotation in CAD

11/24 - present

Envision Makerspace, La Jolla, CA

Events & Outreach Officer

- Planning and hosting workshops every quarter
- Presenting on various machines (3D printer, laser cutter, sewing machine, etc)

05/22 - present

Art of Cloud Dumplings, Fremont, CA

Personal Project combining Art & Engineering

- Game development using Twine, Uity, and bitsy
- Developed professional website showcasing art portfolio: sites.google.com/view/clouddum plinas
- Creating 50+ posts on social media and 40+ YouTube videos

Publications

2024

Evaluating the effectiveness of machine learning models for detecting Al-generated art, Journal of Emerging Investigators (JEI)