ALEC DROSU

ENGINEERING AND COMPUTER SCIENCE

Summary

Educated and trained in MATLAB, Python and Fullstack software applications. Highly organized, analytical and detail-oriented with excellent collaboration skills and the ability to manage multiple projects concurrently. I am currently part of the Gatech Experimental Rocketry club, in the simulations sub team, working with a genetic algorithm and neural network to optimize the fins of the rocket, along with find drag coefficients. Our rocket is set to launch summer 2022, and will reach the Karman line, entering outer space.

Experience

2016-Current **College Tutor**
Independent Contractor, Westminster, CO

- Develop student confidence and provide emotional support and positive reinforcement for difficult classes though attentive instruction in Physics, Calculus, Astronomy and College Algebra.
- Mentor students on importance of good study habits and assist with development of independent homework schedules, encouraging students to create personalized study plans.

2019-2020 **Mechanical and Electrical Engineering Intern**
MSI Technologies

- Engaged in development and testing of motors and panels utilizing wide range of technological tools and industrial protocols.
- Developed technical skills through training and shadowing experienced professionals and assisted with updating information used for reports.
- Worked closely with engineers, advisors and internal business partners to monitor and process information for regulatory compliance.
- Assisted engineers and project teams with calculations, design drawings and preliminary cost estimates.

2021-2022 **Practicum by Yandex Coding Bootcamp**
Yandex

- Learn Fullstack Development using JavaScript, HTML, CSS, Node, React along with other software. Learn the most in demand skills for a full stack programming position

Key Accomplishments

- Member of the simulations, ground station, and procurement divisions of the Gatech tech Ramblin Rocket Club; Where we are building a rocket meant to go into space. I am currently the lead of the Computational Fluid Dynamics section of Simulations.
- Recipient of Altria and Comcast Scholarships, 2019
- Propulsion team member for Design, Build, Fly CU Boulder: Built and designed an airplane to compete against other schools on an international level, 2019
- Stanford Water Polo Junior Olympics Championship Division Participant Summer, 2018
- Member of CU Boulder Students for the Exploration and Development of Space: Built a rover designed to follow a beacon at competition against other colleges, 2016 to 2017

Contact

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Education

Bachelor of Science:
Aerospace Engineering and CS
Georgia Tech, Daniel Guggenheim School of Aerospace, (In progress)
GPA: 3.37

Associate of Science:
Aerospace Engineering
University of Colorado Smead Aerospace, 2020

Associate of Science: Mathematics
Front Range Community College, 2019

Skills

- JavaScript, MATLAB, Python
- HTML, C++, CSS, TypeScript, React
- Node
- Microsoft Office Suite
- Machine Learning

Current Projects

- **Multiple Fullstack development websites**
- **Computational Fluid Dynamics of a rocket using ANSYS**
- **CD Neural Network Training program**
- **Optimization of rocket fins using a genetic algorithm**