

Aaron Lu

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Portfolio: aalu1418.github.io

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Full stack web development and blockchain development



Aerospace engineer specializing in flight dynamics & control



Always learning and tinkering with projects to make life better

About Me

From control systems to blockchain, I am fascinated with understanding, developing, and, ultimately, improving complex systems.

Experience

Conflux Network

Research Engineer

Toronto, ON

April 2020 - current

Creating and explaining solutions in research collaborations

Improving tools and protocol, and integrating with developer tools, APIs, and smart contracts

University of Michigan College of Engineering

Programmer

Remote

April 2019 - April 2020

Data visualization of various optimization concepts using LaTeX/Tikz/PGFplots and algorithms in python

Undergraduate

Ann Arbor, MI

May 2016 - August 2016

Research Assistant

Assisted in preparation of X-HALE aircraft for flight & structural testing.

Lockheed Martin Aeronautics

Flight Controls Intern

Palmdale, CA

May 2018 - August 2018

Developed program for uncertainty quantification & robustness testing during multi-input multi-output (MIMO) control system design.

Flight Test Intern

Edwards AFB, CA

June 2017 - August 2017

Supported flight sciences on the F-35 drag-chute testing program.

Skills

Programming: Python, Javascript, Solidity, LaTeX, MATLAB, C/C++

Web + Blockchain: React, html/JS/CSS, nodejs/Express, Hyperledger Fabric, Ethereum

Software Development: git, linux/windows, agile development, docker, CI/CD

Engineering: optimization algorithms, data visualization, SolidWorks, CATIA V5, AutoCAD, Simulink, LabView

Education

George Brown College

Blockchain

Toronto, ON

September 2019 - August 2020 (expected)

Development Program

Full-stack and blockchain development using Ethereum and Hyperledger Fabric.

University of Michigan

Masters in Aerospace

Ann Arbor, MI

January 2018 - December 2018

Engineering

Specialization in flight dynamics and control.

Course work completed in numerical optimization and non-linear control.

Bachelor in Aerospace

Ann Arbor, MI

September 2014 - December 2017

Engineering

Focused on aircraft structural design and dynamics + control.

Minor in electrical engineering (control systems)