



John W. Link

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OBJECTIVE

To obtain a 2023 summer internship in the areas of computer science and engineering where I can utilize my problem solving and strategic thinking abilities to create and implement practical, innovative solutions to global problems

EDUCATION

University of Virginia - Charlottesville, VA

Intended BS Computer Science and BS Computer Engineering

Aug 2020 - May 2024

GPA: 3.84/4.0

James Madison High School - Vienna, VA

Advanced Studies Diploma

Aug 2016 - May 2020

GPA: 4.46/4.0

EXPERIENCE

MITRE Corporation

Summer Engineering Intern, Edge Computing for Autonomous Vehicles

May 2022 - Aug 2022

McLean, VA

- Utilizing edge computing to offload high intensity applications onto networked computers increasing computational overhead
- Experimenting with small scale autonomous vehicles to better understand how they perceive the world

MITRE Corporation

Engineering Intern, Small Scale Autonomous Data Collection

May 2021 - Aug 2021

McLean, VA

- Working with AWS DeepRacer to collect and analyze data from autonomous vehicles

MITRE Corporation

Engineering Intern, 3D Printing and Engineering Design

Aug 2020 - Feb 2021

Charlottesville, VA

- Working with 3D Printing and CAD to design solutions for sponsors of MITRE

UVA Mechanical Engineering Rapid Prototyping Lab

Technician and Teaching Assistant, 3D Printing and Introduction to Engineering

Nov 2020 - Present

Charlottesville, VA

- Design and assist with implementation of class activities/projects for first-year engineering courses
- Maintaining and operating the Stratasys 3D printers for all engineering departments

RPG Squarefoot Solutions

Summer Intern, Alternate Reality Workflow

June 2019 - Aug 2019

Vienna, VA

- CAD and AI development to support construction industry product applications
- 3D printing design and support for prototypes and demo models

PROJECTS/TEAMS

UVA Cavalier Autonomous Racing - Charlottesville, VA - autonomusracing.dev

May 2020 - Present

- Participant in first ever head to head autonomous race in Indianapolis and Las Vegas Motor Speedways
- Researcher involved with simulation and vehicle interface control systems

Virginia Motorsports - Charlottesville, VA - vvmotorsports.org

Apr 2021 - Present

- Engineering design advisor for the UVA FSAE team, designing, reviewing, and building a full scale formula car
- Lead researcher for electric transition of FSAE team including prototyping and EV swapping a legends racing car

Nova Labs Makerspace - Fairfax, VA - nova-labs.com, github.com/nova-labs/Nova-I3

Oct 2015 - Present

- Active participant in Nova Labs 3D printer group responsible for maintaining the community 3D printers
- Volunteer work around the makerspace including teaching classes, building, and maintaining the space

Other Teams

- FIRST Robotics Competition Team 620 📍 : High school robotics program
- FIRST Technology Challenge Teams 6633, 6700, 12787 📍 : Middle and high school robotics program

TECHNICAL SKILLS

Programming Languages: C++, C, Python, Java

ML/AI: Pytorch, Numpy, Pandas, Matplotlib

Modeling & Simulation: Fusion 360, Solidworks, Ansys Software

Operating Systems: Linux, Windows, Apple OS

Certifications: CompTIA A+, S+ and N+ (Not Current)

Interfaces: AWS, Git, ROS, ROS2, Latex

RELEVANT COURSEWORK

Computer Science: Autonomous Vehicles, Data Structures and Algorithms, Databases, Operating Systems, Computer Networks

Mathematics: Differential Equations, Discrete Math, Probability, Linear Algebra

PERSONAL INTERESTS

- Intramural sports - volleyball, soccer, basketball, flag football
- Travel to over 30 states and 10 countries, experiencing culture and geography
- Formula 1 racing enthusiast
- Making and tinkering with 3D printers, microelectronics, and home automation