

# Harrison York

[harrisonyork03@gmail.com](mailto:harrisonyork03@gmail.com) | [harrisonyork.com](http://harrisonyork.com) | [linkedin.com/in/harrisonyork03](https://linkedin.com/in/harrisonyork03)

## EDUCATION

---

### Duke University

BSE, Electrical & Computer Engineering and Computer Science

May 2026

Durham, NC

**GPA:** 4.00

Dean's List with Distinction, Society of Hispanic Professional Engineers (SHPE)

**Coursework:** Operating Systems, Network Architecture, Microelectronics, Robotics & Automation, Probability for Machine Learning, Computer Architecture, Digital Systems, Data Structures & Algorithms, Signals & Systems

## EXPERIENCE

---

### SpaceX – Software Engineering Intern

May 2025 – Aug 2025

Starlink Product Engineering

Hawthorne, CA

- Developed full-stack internal app to monitor Starlink User Terminal testbeds, focusing on caching, load times, automated deployment, and network impact with software including Ansible, Redis, Flask, Docker, and React
- Upgraded automated testing infrastructure with enterprise servers and VM clusters to increase HITL reliability and decrease time to release
- Owned projects from start to completion, including leading design discussions and coordinating across teams to drive progress

### Microsoft – Software Engineering Intern

May 2024 – Jul 2024

Power Pages

Redmond, WA

- Streamlined process for adding custom web components to sites, increasing user efficiency by 80%
- Collaborated with PM and design teams to collect user feedback and enhance project implementation
- Deployed new UI/UX features to increase product accessibility using React and TypeScript

### Amazon – Software Engineering Intern

Jun 2023 – Aug 2023

AWS Lambda

Seattle, WA

- Completed a proof-of-concept estimated to reduce operating costs by over \$1 million annually
- Implemented object-oriented programs and wrote corresponding unit tests with >90% coverage
- Delivered detailed design docs and presentations to stakeholders

### Duke Motorsports – Electrical Systems Engineer

Aug 2023 – Present

Formula SAE team member

Durham, NC

- Improved electrical harness with new sensors and routing with RapidHarness
- Designed PCB for steering wheel upgrade using Altium, prototyped using Arduino
- Calibrated sensors, installed electrical harness, troubleshooted vehicle system failures

## PROJECTS

---

### Processor and Robot Arm

Apr 2024 – May 2024

- Built 5-stage pipelined processor in Verilog to implement on an FPGA using Vivado, supporting reduced MIPS ISA
- Integrated processor with 3D-printed robot arm using joystick inputs
- Created custom prints (Fusion 360), circuits, and control signals (PWM)

## SKILLS

---

Java, Python, C, JavaScript, React, Verilog, FPGA, HTML, CSS, MATLAB, Assembly, Altium

## AWARDS

---

**Lockheed Martin STEM Scholar**

2023

**Hispanic Scholarship Fund Scholar**

2022