

Aryan Gupta

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EDUCATION

University of North Carolina at Charlotte - Charlotte, NC

2016 – Present

Bachelor of Science in Computer Engineering Minor in Software Systems and Mathematics

GPA: 3.558 / 4.000

WORK EXPERIENCE

Mosaic Computing / Personal Computer Support

Lead Technical Assistant

Apr. 2018 – Present

- Managed other TAs in work environment
- Conducted interviews for potential TAs and Roamers

Hardware Technical Assistant Internship

Summer 2019

- Assisted in managing servers used by College of Engineering
- Troubleshoot machines for hardware issues
- Assisted other departments in various issues

Technical Assistant

Aug. 2016 – Apr. 2018

- Managed Mosaic computing environment and associated computers
- Assisted engineering students and faculty with computer issues
- Managed redundant servers for software management and deployment

PROJECTS, RESEARCH, AND CREATIVE ENDEAVORS

NASA University Student Launch Initiative

2019 – 2020

- Constructed a rocket with a quadcopter payload
- Assisted in design of UAV quadcopter to carry drilling mechanism to drop site
- Lead design and implementation of camera vision to detect drop location from rocket
- Lead design of computer systems on UAV

Arduino-based Flight controller

Summer 2018

- Independently designed and constructed an Arduino-based quadcopter.
- Self-taught details on PWM, Serial, I2C, and PID.
- Designed custom I2C library for Arduino Nano to double performance from Arduino libs
- Reverse engineer iBUS protocol to interface with Arduino Nano using logic analyzer

DC to AC Inverter

Summer 2019

- Worked with a team to design and fabricate a DC to AC inverter.
- Troubleshoot, debug, and resolve issues with custom PCB/circuit design.

Home Lab

Summer 2015 – Present

- Independently implemented a home lab with multiple Linux and Window servers.
- Host webserver with Let's Encrypt® certificate, DHCP, DNS, and other custom servers

GitHub

May 2015 – Present

- Various other programming projects: github.com/aryan-gupta

SKILLS

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|---------------------|-----------------|------------------|---------------|---------------------|
| Leadership | Troubleshooting | Problem Solving | Communication | Reverse Engineering |
| Computer Networking | Multithreading | Embedded Systems | Assembly | |
| C++ | Python | Linux | ARM | Git |
| | | | OpenCV | Arch Linux |
| | | | STM32 | Java |

OTHER

Boy Scout, Boy Scout of America

2008 – Present

- Assistant Scout Master

Dec. 2019 – Present

- Eagle Scout

Feb. 2016

- Senior Patrol Leader

2015

Chancellor's List

Fall 2016

Dean's List

Spring 2017, Fall 2017, Spring 2019