Aryan Gupta

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f theguptaempire.net/about-me

EDUCATION

University of North Carolina at Charlotte - Charlotte, NC

M.S. in Electrical Engineering

Aug. 2020 - Dec. 2022 (Expected)

GPA: 4.0 / 4.0

Minor in Software Systems B.S. in Computer Engineering

Minor in Mathematics

Aug. 2016 - Dec. 2020

Graduated Cum Laude (GPA: 3.573 / 4.000)

WORK EXPERIENCE

Mosaic Computing / Personal Computer Support

System Administrator I

Feb. 2020 - Present

- Provide support to the Mosaic managed desktop computing environment
- Oversee helpdesk support tickets with Tier 3 support
- Package engineering applications for deployment on Mosaic Windows desktops

Lead Technical Assistant

Apr. 2018 - Jan. 2020

Managed TAs in work environment

Conducted interviews for potential TAs and Lab Roamers

Hardware Technical Assistant

Summer 2019

- Assisted in managing compute servers used by College of Engineering faculty and students
- Troubleshot lab machines and computers for hardware issues
- Assisted other computing departments in various issues

Technical Assistant (TA)

Aug. 2016 - Apr. 2018

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

PROJECTS, RESEARH, AND CREATIVE ENDEAVORS

NASA University Student Launch Initiative

2019 - 2020

First Place Payload, Second Place Overall

- Designed, documented, and constructed a rocket (LV) with a quadcopter (UAS) payload
- Lead development of computer systems on UAS and LV
- Lead development of camera vision system to detect ice sample location from LV
- · Assisted in design of UAS to retrieve a lunar ice simulant sample
- · Assisted design of deployment system to eject UAS out of LV during decent

Arduino-based Flight Controller

Summer 2018

- Independently designed and constructed an Arduino-based quadcopter
- Implemented custom I²C library for Arduino Nano to double performance from Arduino libs
- Reverse engineered iBUS protocol to interface with Arduino Nano using logic analyzer

Project Website

http://theguptaempire.net

- Host slew of projects done by me (or partly by me) on my website
- Includes home lab setup, Raspberry Pi smart clock, mechanical keyboard build, and more

SKILLS

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

EXTRACURRICULAR

Boy Scout, Boy Scout of America

Dec. 2019 - Present

Assistant Scoutmaster Eagle Scout

Feb. 2016

2015

2008 - Present

Senior Patrol Leader

Jul. 2018 - Present

Aug. 2019 - Present

49th Security Division 49er Rocketry and Projectile Society