Aryan Gupta

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EDUCATION

University of North Carolina at Charlotte - Charlotte, NC

M.S. in Computer Engineering   *Aug. 2020 – Dec. 2022 (Expected)*
    GPA: 3.83 / 4.00

B.S. in Computer Engineering   Minor in Software Systems   Minor in Mathematics   *Aug. 2016 – Dec. 2020*
    Graduated Cum Laude (GPA: 3.573 / 4.000)

WORK EXPERIENCE

Mosaic Computing / Personal Computer Support

IT System Administrator II   *Aug. 2021 – Present*
- Develop and maintain computing environment to support academic and research labs in the college
- Development included specialized embedded/high performance computing solutions to support HIL simulation
- Provide support on the development of university-wide Linux-based services

IT System Administrator I   *Feb. 2020 – Jul. 2021*
- 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

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

RESEARCH AND PUBLICATIONS

(TBD) Risk Aware LTL Motion Planning with Reinforcement Learned Agent and Antagonist   *TBD*
Dr. Dipankar Maity, Ph.D. – University of North Carolina at Charlotte – Charlotte, NC
- TBD

PROJECTS AND CREATIVE ENDEAVORS

NASA University Student Launch Initiative   *2019 – 2020*
First Place Nationally Payload, Second Place Nationally 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

TensorFlow Based Banana Presence Detector on IoT Arduino board   *Spring 2021*
- In a group, designed, trained, and tested a banana presence detector on a low powered Arduino ARM board
- Would detect presence of banana if placed in front of the camera
- Utilized Arduino Nano 33 BLE board with the OV7670 Camera

SKILLS

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

EXTRACURRICULAR

Boy Scout, Boy Scout of America   *2008 – Present*
- Assistant Scoutmaster   *Dec. 2019 – Apr. 2021*
- Eagle Scout   *Feb. 2016*
- Senior Patrol Leader   *2015*

49er Rocketry and Projectile Society   *Aug. 2019 – Present*