Aryan Gupta

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EDUCATION

University of North Carolina at Charlotte - Charlotte, NC   *2016 – May 2020 (Expected)*
Bachelor of Science in Computer Engineering with Minor in Software Systems and Mathematics
GPA: 3.558 / 4.000
Chancellor's List   *Fall 2016*
Dean's List   *Spring 2017, Fall 2017, Spring 2019*

WORK EXPERIENCE

Mosaic Computing / Personal Computer Support
Lead Technical Assistant   *Apr. 2018 – Present*
- 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 – Present*
- 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

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 Scout Master   *Dec. 2019 – Present*
- Eagle Scout   *Feb. 2016*
- Senior Patrol Leader   *2015*

49th Security Division   July 2018 – Present
Institute of Electrical and Electronics Engineers   Aug. 2018 – Present
49er Rocketry and Projectile Society   Aug. 2019 – Present