Aditya Bhatia

(919) 348-6281 | bhatia.aditya@gmail.com | www.linkedin.com/in/adityab25/

Diligent incoming freshman at the University of Illinois Urbana-Champaign who is actively looking for an internship in the fields of Engineering or Computer Science. Aiming to enter the industry of Robotics & Autonomous Systems following graduation.

Technical Skills

- Object-Oriented Programming (Java, Python & C#)
- Networks and Cybersecurity, System Architecture
- Adobe Photoshop, Illustrator, and InDesign
- Autonomous Systems and Robotics
- CAD 2D/3D Modeling (SolidWorks, Onshape)
- Electrical Design, PCB Layout
- Web Design with HTML & CSS
- Social Media Marketing

Education

University of Illinois Urbana-Champaign, Champaign, Illinois
Bachelor of Science in Systems Engineering & Design with a focus on Autonomous Systems & Robotics, *Expected Graduation* May 2025

Green Hope High School, Cary, North Carolina
Activities and Societies: Black Falcons Cyber Security Team, Mu Alpha Theta (Math Honors Society), Future Business Leaders of America (FBLA), Distributive Education Clubs of America (DECA), National Technical Honors Society, Conrad Challenge
Relevant Coursework: CTE Advanced Studies in Information Technology, Computer Engineering Technology, AP Computer Science, Principles of Business and Finance, AP Calculus, AP Physics, AP Statistics

Experience

The Fantasy Doctors
Social Media Manager & Video Editor, March 2021 - present

- Manage The Fantasy Doctors' Facebook, Instagram, and Twitter accounts
- Create thumbnails, edit, and post all videos to YouTube with proper tags & engagement tools
- Work with content creators to promote videos on all social media platforms
- Ensure compliance with all partners/campaigns
- Assisted with the creation of the TFD app that provides all sports news/injury analysis in one centralized location
- Create necessary graphics for various promotions & special events

InspireNC Computer-Aided Design Challenge
Co-Founder & Event Coordinator, March 2020 - present

- Collaborate with InspireNC to create hackathon-style Computer-Aided Design (CAD) challenges
- Develop game theme and rules & design the field layout in CAD
- Secure event sponsorships, CAD licenses, and prizes for teams
- Organize a live-streamed award show to announce the winners on Twitch
- Secured participation from over 100 teams and 450+ students representing Canada, Mexico, USA, China, India, Israel, and Australia, among other countries

FIRST Robotics Competition (FRC) Team 900, The Zebracorns, Durham, NC
CAD/Mechanical Team Lead & Member, July 2017 - June 2021

- Led a team of 25+ students in planning, prototyping, designing, developing, and fabricating robotic components for a ~150lb robot with autonomous capabilities and varying levels of complexity

- Utilized CAD 2D/3D Modeling tools (Onshape and Solidworks) to translate engineering requirements and concepts into functional, detailed designs
- Moderated team meetings and conduct design review sessions; ensure on-time deliverables
- Ensured optimal robot performance during competitive events
- Promoted STEM as part of community outreach initiatives as well as mentor FIRST Lego League (FLL) & FIRST Tech Challenge (FTC) teams

Teaching Assistant for TIGER (Teaching Innovation, Graciousness, and Engineering through Robotics) Summer Program, July 2019

- Developed and delivered a mechanical/CAD curriculum to students on FIRST Robotics teams from underserved areas of North Carolina. Promoted diversity/inclusion & discovery of talent.

MIT Lincoln Laboratory Beaver Works Summer Institute

Autonomous RACECAR Program, July 2020

- One of 21 rising high school seniors selected to participate in this competitive program
- Utilized Python to program an autonomous RACECAR running on the Robot Operating System (ROS)
- Integrated Computer Vision algorithms utilizing OpenCV for obstacle avoidance & path following
- Created an image classifier using LIDAR data, trained by a Convolutional Neural Network, to autonomously drive the RACECAR through various wall-following tracks

Sayware, Mentored by Ty Sayman

Electrical Engineering Intern, June 2020 - January 2021

- Designed and built embedded systems and multi-layer PCB boards using Altium and Upverter
- Designed a custom breakout board for the recently released NVIDIA Jetson Xavier NX
- Completed testing of prototypes for mechanical and electrical functions
- Validated end-to-end operation of the systems

Green Hope Black Falcons Varsity Cybersecurity Team

Vice President & Black Team Member, March 2020 - April 2021

- Competed in Air Force Association's CyberPatriot challenges
- Detect/fixed security vulnerabilities in Linux operating systems
- Developed curriculum to promote/teach the fundamentals of systems administration and cybersecurity
- Oversaw the well-being of 4 competitive teams and manage club communications & activities

Game2Learn Lab, North Carolina State University

Computer Science Intern, June 2020 - July 2020

- Piloted and designed educational tools and software for K-12 classrooms
- Supported a joint CS Frontiers project between NCSU and Vanderbilt University; tested advanced block-based educational simulations and programs
- Participated in multiple research studies with graduate students
- Worked collaboratively to build computing-infused programs for 150+ middle and high school teachers across North and South Carolina
- Provided Snap! and Computer Science support to educators during the four-day-long Infusing Computing Professional Development event hosted by The Citadel and NCSU

Awards/Accomplishments

- Presidential Volunteer Service Award (Gold Distinction), 2017, 2018, 2019 & 2020
- Adobe Certified Associate (ACA Specialist)
- DECA Finalist (State Level), 2017, 2018 & 2019
- FBLA Finalist (District & State Level), 2018 & 2019
- Conrad Innovator, Conrad Spirit of Innovation Challenge, 2020
- National Merit Scholarship Finalist, 2021