

AADIT NAGPAL

✉ nagpalaadit@gmail.com ☎ +44 7426 993 990 🔗 [linkedin.com/in/aadit-nagpal-bb5031263](https://www.linkedin.com/in/aadit-nagpal-bb5031263)

Education

University of Warwick

Bachelor of Engineering (BEng) in Electronic Engineering

Sep 2024 – May 2027

Coventry, West Midlands

- **Modules:** Engineering Design; Engineering Mathematics; Electrical and Electronic Circuits; Systems Modelling, Simulation and Computation; Computer Organisation and Architecture (Audit)
- **Clubs and Societies:** Engineering Society, Computing Society, Philosophy Society, Punjabi Society, Tennis Club

Langley Grammar School

GCE Advanced Level

Sep 2022 – May 2024

Slough, Berkshire

- **Grades:** Mathematics A, Physics A, Computer Science A

Relevant Experience

Detego

Software Engineer Shadowing

Jul 2022

Westminster, Greater London

- Participated in daily sprint stand up meetings, which enhanced my understanding of the agile and scrum methodologies. Observing the scrum master highlighted the importance of delegation and collaborative development in effective software delivery.
- Gained exposure to RFID and embedded system software development, collaborating with engineers to diagnose and resolve technical challenges in a professional environment.

Projects

RC Drone and Transmitter | Arduino, C++

- Assembled a functional drone flight controller and radio transmitter through integrating an Arduino microcontroller, motors, lithium-ion batteries, gyroscopes and accelerometers. Soldered together components whilst performing precise calculations to meet component specifications.
- Implemented low-level C++ programming to control drone movements, managing interactions between the radio transmitter and flight controller. Utilised multi-channel data transfer to enhance responsiveness.

Cards Against Humanity Web Application | React, Node.js, SQL, Socket.io

- Developed a full-stack MERN application, utilising a RESTful API to facilitate seamless communication between the React-based client and Node.js server
- Created a real-time, multiplayer web application replicating a turn-based card game, integrating Socket.io for concurrent connections and chat functionality.

Volunteering Experience

University of Warwick Student Union

Engineering Course Representative

Sep 2024 - Present

Coventry, West Midlands

- Represented the views and needs of 400+ engineering undergraduates as a course rep on the Student-Staff Liaison Committee

Ryvers Primary School

Volunteer Teaching Assistant

Sep 2022 - Mar 2023

Slough, Berkshire

- Worked with a cohort of 20+ Year 2 students, fostering significant improvements in literacy, numeracy, communication, and reading comprehension skills
- Facilitated pupils to work with technology to aid with learning. Involved giving support when setting up and utilising IT accounts when needed

Technical Skills

Awards: UKMT Maths Challenges Golds (Various), British Physics Olympiad Silver (2023), UK Bebras Merit and Distinctions (Various)

Programming Languages: Python, C++, C, Verilog, JavaScript