

Alex Sanchez

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Education

University of Bath (2023-Present)

MEng Electronic Engineering with Space Science and Technology

Year 1 Average: 56% (On track for First Class Honours)

Trinity Academy (2017-2023)

Brixton Hill, London

A-Levels: Chemistry A, Mathematics B, Physics B (2021-2023)

GCSEs: 9 A*-B including Chemistry, Physics and Mathematics (2017-2021)

Engineering Projects & Experiences

First Year Engineering Projects

- Creating a LIXIE Lamp by first designing a digital circuit which could be transferred over to making a PCB. Worked as a team to hand solder electronic components on to the board and used an Arduino to code the board to light up the LEDs at different intervals
- Built a pulse oximeter, to measure blood oxygen saturation and BPM, and by coding using MATLAB to graphically display changes in vitals

Artemis Profit Hunt (October 2021-April 2022)

- Worked in a group where we traded stocks to achieve the highest percentage gain across our portfolio.
- I had to use data interpretation skills and technical analysis to assess the stock charts. We also had several team meetings where we discussed strategy and tracked world news for economic trends and emerging markets.
- This competition also required significant discipline and patience to assure minimal losses.

Telford Homes work experience placement (July 2022)

- I spent my time working under an electrical engineer where we tested appliances around the site to check for faults.

- Additionally, I was tasked with creating a presentation for which I used my PowerPoint and Excel skills to represent data I collected.
- When I conducted the presentation for several engineers, I had to use communication and effective decision making to answer a range of questions.

Computing Skills

MATLAB: I am experienced in programming efficiently laid out graphs from data sets collected also using this programme from our various university projects.

Arduino: Skilled in using Arduino for a range of uses from programming a circuit board to carry out tasks to reading data.

CAD: Created numerous 2D and 3D models on CAD and winning a competition by modelling and printing out an Arduino case fit with USB-C port and ventilation systems.

Microsoft Office: Prominently proficient in Excel, PowerPoint and Word. I mainly use it to write lab reports and data representation.

Work Experience

Voxly Tuition, Tutor, London (October 2021-January 2022)

- Tutored one-to-one or up to ten students ranging from ages 11-16 several subjects including the sciences and Spanish.
- This took lots of performance management and adaptability skills to ensure all students were on track to reaching target grades.

Spar, Assistant Supervisor, Bath (February 2024-May 2024)

- I made sure the store was always looking presentable, aided customers with enquiries and tasked team members with responsibility.
- This improved my leadership skills and ensured the store was operating efficiently.

Latchmere Leisure Centre, Lifeguard, London (June 2024-Present)

- Took on multiple responsibilities including completing risk assessments, educating swimmers on how to stay safe and taking part in multiple staff training to ensure my rescues were efficient.
- This required quick thinking and courage to ensure I was always ready to make a save.

Activities and Interests

Trading: I have taken up trading to hone my analytical skills as well as my patience. Trading has allowed me to be more technical when it comes to thinking about problems.

Sports: I often go to the gym where I take part in powerlifting sessions. I also take part in weekly football games against friends.

Music: Self-taught guitar and piano by learning sheet music from online videos.