

ADAM RODRIGUES

GCSE STUDENT, ENGINEER

07523 295 630

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info@ax3d.co.uk

SKILLS

CAD

- **OnShape, Fusion 360** used on various projects involving **GD&T, FEA Analysis, 3D printing** and **injection molding design**
- **OnShape** used to draft 2D engineering drawings including **FAI** dimensions to **ISO Standards**
- **Blender** used to create photorealistic **renderings** of products and architectural models

Mechanical

- **3D printing** used to rapidly prototype and mass produce components
- **Laser cutting** used to produce complex sheet materials affordably
- **Vacuum forming** used to quickly produce plastic shells using a former

Electrical

- **Java, Python** programming for mechanical systems in robotics
- Knowledge of **Electrical components** used for products, robotics and electronics
- **Soldering** used to connect electronic components creating circuits

PAYED ROLLS

AX3D | CEO

Jan 2023 - Present

- Founded a company offering services in **3D printing, CAD** and **Rendering**
- Designed, manufactured and marketed products for over 20 clients
- **Verified supplier** for 3 Formula Student Racing teams
- **Sponsor** and **manufacturer** for 6 secondary school FTC robotics teams
- Worked with industry leaders such as **The AA, IDPhotoshop** and **Little Big Tech**

IDPhotoshop | Product designer

Jul 2022 - Present

- Designed and **3D printed** a series of organisation products for IDPhotoshop's office space
- Designed and **laser cut** a bespoke LED shop sign for IDPhotoshop

TBRe | Verified supplier

Sep 2023 - Present

- **Verified manufacture** for the University of Bath Formula Student team
- Improved **DFA** and **DFM** for motorsport components for the race car to be 3D printed
- 3D printed over 20 components for the car's Accumulator, aerodynamic and safety systems

PERSONAL ACHIEVEMENTS

DofE Bronze & Silver

- **Volunteered** in my school's DT lab, learning about the organisation and systems in a school department for 36 months
- Developed skills in **Rendering** and **Python** programming for 24 months
- Consistently **practiced** and improved my mountain biking skills for 36 months
- Organised and completed in 4 multi-day **hiking** and **camping** expeditions without the use of technology

London Youth Games

- Competed in the London Youth Games for **BMX Racing** placing 2nd of out 12 racers in my age group

Design Ventura

- Challenged to design a product relating to **dentistry** and **health**
- Designed a reusable toothbrush system using **FAI** and **CAD**
- Distinction shortlisted award

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EXPERIENCE

Norwood Industries | Team leader

Sep 2021 - June 2025

- Led a secondary school robotics team of 12 students competing in the international robotics competition: **First Tech Challenge**
- Placed **1st** at the 2024+2025 South West Qualifier
- **Winning alliance** out of 512 UK teams and **Design Award** winners at the 2024 Championships
- **WAC+Inspire** award at 2025 Qualifier
- Set 6 **National records**
- Designed and manufactured the robot using **CAD, CAM** and **CNC**
- Programmed 6 **TeleOp** sub-systems and **autonomous** period in **Java** using over 50 sensors and elimination algorithms
- Organised 12 **fundraiser events** and reached out to 31 sponsors raising £5000 allowing financial independence
- Featured on **BBC Click** whilst competing at Champs 2024
- Created curriculum for new members teaching **CAD, CAM** and **programming**
- **Communicated** with Chinese **manufacturers** to get out aluminium side plates cut

NHS IT Management | Apprentice

April 2025

- Worked with the **South London NHS IT consultant**
- **Mapped** out computer and telephone ports in the Balham Practice to connect computers to shared network
- **Installed** laptop security locks
- **Recorded** computer asset tags to prevent theft
- Re-wired server room streamlining future **maintenance** and preventing damage
- **Verified** server function
- Programmed a **BAT file** allowing GPs to easily connect personal drives to a shared **LAN** network