

Jonathan D'Costa

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Applying for 2027 mechanical and aerospace engineering degree apprenticeships. Practical experience in CAD, prototype testing and semiconductor manufacturing, alongside product visualisation, software and business operations.

ENGINEERING EXPERIENCE

Custom Interconnect - Micro Electronics work experience | Andover | July 2024

- Designed assembly jigs in SolidWorks and developed a 3D-printed prototype. Validated it against production equipment in the cleanroom, refined the design and released it for CNC manufacture.
- Reverse-engineered a physical component using vernier calipers to produce an accurate SolidWorks model.
- Took part in wire bonding and followed chip-on-board packaging from wafer dicing and die attach through wire bonding and encapsulation.
- Worked with cleanroom gowning, ESD control and airborne particle monitoring. Tested and debugged Python move validation and state handling in a Tower of Hanoi implementation.

PROJECTS

GCSE 3D Design - CAD and prototyping

- Used Fusion 360 for plans and printable parts, TechSoft 2D Design for laser-cut components, and Mars 4 DLP and Saturn 4 Ultra resin printers for research and development. Achieved grade 9 in the course.

Product visualisation - JollySip and JollySwipe

- Named both products, wrote their Amazon listings and modelled and rendered all product images in Blender. Each listing image set took one to two weeks, with text and final layouts added in Canva.

Cravate - food-decision web app | August 2026 - present

- Built and deployed a PWA from concept to beta, with a Cloudflare Worker backend and location data. Used AI-assisted development, specified requirements and tested generated output.

BUSINESS EXPERIENCE

Jollymart Ltd - Business Operations Manager | August 2023 - August 2026

- Ran sourcing, supplier negotiations, packaging, Amazon FBA labelling and sales-channel operations. Reviewed advertising costs, pricing and supplier defects to understand launch losses.
- Prepared financial records and liaised with the accountant for statutory filings. Redesigned the reporting format in 2026, which the accountant adopted.

EDUCATION AND TECHNICAL SKILLS

The Sixth Form College Farnborough | 2025 - 2027

A levels: Mathematics, Physics and Chemistry. AS Further Mathematics: B.

All Hallows Catholic School | GCSEs, 2025

10 GCSEs: 9988887776. 3D Design and Physics: 9; Mathematics and Computer Science: 8.

Tools: SolidWorks, Fusion 360, Blender, TechSoft 2D Design, Python, HTML/CSS/JavaScript, resin and FDM printing.

Additional: CAA-registered drone operator; full UK driving licence; right to work in the UK.