

Ethan Buskell

Aspiring mechanical engineer with a strong foundation in mathematics and physics, a proven ability to design and build real-world systems, and hands-on experience with CAD, 3D printing, and hardware integration.

Thatched Cottage

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EXPERIENCE

E J Cook & Co, Norwich, Norfolk — *Retail Assistant*

- Delivered customer service
- Maintained a clean, organized store environment.
- Handled perishable goods

The Boathouse Ormesby — *Kitchen Porter*

- Worked in team of 8-9
- Worked efficiently and under extreme pressure

Town and Country news, Hickling — *Paper delivery*

Delivered to 160 + houses for a local newspaper for 2 years.

EDUCATION

Norwich School, Norwich — GCSE

2024

- GCSEs: Seven 9s, two 8s, a 7, and a 6.
- A-Levels (Predicted): Further Mathematics, Mathematics, Computer Science, and Physics (all A*).
- Represented the school's 1st football team for two years, showcasing leadership, discipline, and teamwork.

SKILLS

Technical Skills: CAD: Fusion 360 (assemblies, drawings) · Manufacturing: Bambu Lab 3D printing, soldering · Programming: Python, HTML/CSS, Node.js · Other: Git/GitHub, Adobe Suite

Customer Service: Empathetic communication, multitasking, and product demonstrations.

Teamwork: Leadership and collaboration as a member of the school's 1st football team.

Software Proficiency: Office, Python. Adobe suite.

AWARDS

Duke of Edinburgh: Gold, Silver and Bronze

Referee qualification

Outstanding achievement award for GCSE results.

LANGUAGES

English

PROJECTS

Automated Outdoor Donkey Treat Dispenser

- Designed and developed a dispenser to distribute donkey treats efficiently and reliably in outdoor settings.
- Designed a weatherproof enclosure using PETG filament and validated through outdoor testing over 12 months
- Integrated a unique TikTok feature to trigger treat dispensing via audience engagement during live streams

Robot Lamp: Lelamp

- Built and assembled working robot which responds to real world inputs
- Redesigned load-bearing joints in Fusion 360 to increase tensile strength by 70%, resolving instability caused by added servo motors
- Coded emotions and kinematics for the robot to move via.

IQuad Speaker Control Panel

- Reverse engineered pre existing control panel for amplifier
- Improved design and added new features to contain modern hardware while still fitting original casing
- Explored 3D printing capabilities to maximise production efficiency and precision

County Cutters: Landscaping Website

- Created landscaping website using HTML and CSS, deployed in Github pages
- Advertised and run small landscaping business

Webtrips: Travel Guidance Website

- Created Skiing holiday travel agency, incorporating [Node.js](#) backend with AI price estimates and MySQL database.
- Small website with only personal usage hosted via Render with improvements coming to database size and other functions within the site

INTERESTS

- AI and its implementation
- Technology and innovation in engineering.
- Running and football
- Design challenges.

