# Jacob Nathan

IT and engineering student | jacobnathan1718@gmail.com

Hands-on student with practical experience in engineering, construction, self-hosted systems, networking, web development and custom PC builds. Seeking an IT, engineering or technical apprenticeship.

## Education

**City of Derby Academy | 2019 to 2024**
Level 2 Distinction in Construction; Level 2 Distinction* in Engineering; GCSE Mathematics Grade 5; GCSE English Language and Literature Grade 3; GCSE Combined Science Grade 4/5.

## Technical skills

**Systems and IT**
Linux, Docker, virtual machines, NAS storage, networking, backups, monitoring, secure remote access, PC assembly and troubleshooting.

**Development and design**
HTML, CSS, JavaScript, Cloudflare deployments, Fusion 360, TinkerCAD, technical drawing and project documentation.

**Engineering**
CAD, manufacturing, machining, welding, construction site safety, mechanical design and practical problem-solving.

## Work experience

**Encompass Engineering | Electrical engineering**
Gained experience in designing and planning electrical systems for trains. Assisted with schematics and system layouts, and learned about power distribution, safety standards and collaboration.

**A Nathan Brickwork | Construction**
Worked on active building sites mixing concrete, assembling drainage systems, digging trenches, levelling concrete and moving materials. Developed practical skills, teamwork and site-safety awareness.

**Custom go-karts with a JCB engineer**
Designed and built wooden and metal go-karts, using workshop machinery including a lathe and pillar drill to make steering and wheel-mount parts.

## Projects and achievements

**Homelab and web projects**
Built and administer a home server environment running media, private cloud, storage, password management, networking and monitoring services. Design and deploy responsive websites and web applications.

**Greenpower Go-Kart Building Club**
Built and tested an electric go-kart as part of a school team, then raced competitively against other schools.