

Felix Bowyer

fbcf.xyz | github.com/efbicief
hello@fbcf.xyz | +447770 065123 | felix.bowyer@warwick.ac.uk

SKILLS

PROGRAMMING

Experienced:

Python • Java • Haskell • Git • C • Bash • \LaTeX • Linux
admin • MATLAB / Simulink

Familiar:

Rust • JavaScript • TypeScript • React • Arduino •
HTML & CSS

PROJECTS

COURSEWORK

SCRATCH CLONE

Haskell

A clone of Scratch, built with Google's Blockly API.
Parses and executes instructions represented in XML
using functional programming techniques.

SELF-BALANCING ROBOT

MATLAB / Simulink

Programmed an Arduino-controlled robot to self
balance using a PID control system. Group project,
completed successfully to a 1 week deadline.

NotNo

C

Text manipulation program, with built in ncurses
interface.

ROBOT MAZE CONTROLLER

Java

Implemented an Artificial Intelligence (AI) autonomous
agent in order to navigate a random maze. Used an
informed search technique with a heuristic and path
pruning. Agent was able to learn from past mistakes in
order to find an optimal solution.

OTHER

MULTIPLAYER PLATFORMER

Python

Multiplayer platformer fighter game created using
pygame. Implements full client-server model with
Python sockets.

MINECRAFT PLUGIN

Java

Game mod created for a charity event using Maven.
Raised over £500 in 2 hours from donations processed
by the plugin.

3D PRINTING

Built and modified a DIY 3D printer, controlled with a
RepRap PCB over USB, assembled from 3D printed
parts.

EDUCATION

UNIVERSITY OF WARWICK

COMPUTER SYSTEMS ENGINEERING (MENG)

2020 - Present | Coventry, UK

Currently working at a 1st.

THE COMMONWEAL SCHOOL

SCHOOL AND SIXTH FORM

2013 - 2020 | Swindon, UK

A*A*A(A) at A level, in Computer Science, Physics, Mathematics, and
Further Mathematics.

5 9s, 3 8s, 2 7s at GCSE, and A (top grade) FSMQ Additional
Mathematics.

EXPERIENCE

VOXA LIMITED | DEVELOPER

2021 | Coventry, UK

- Worked in a small team using React and Tailwind CSS to create
Semlink, a web app to connect you to seminar and coursemates at
university.
- Initially created for WarwickHack2021, with continued
development.
- Managed app integration with Google's Cloud Firestore database
to store user information.

NATIONWIDE | WORK EXPERIENCE INTERN

2018 | Swindon, UK

- Shadowed several roles in Nationwide's security department.
- Worked with penetration testers, certificate management, update
rollout teams, and security experts.

ACHIEVEMENTS

2019 | UK Senior Mathematical Challenge

Achieved a gold certificate, awarded to the top 10% of participants.

2018 | TCS Oxford Computing Challenge

Competed nationally at Hertford College, University of Oxford.

Achieved a distinction, awarded to the top 2.5% of participants.

2018 | Cyber Discovery

National competition ran by HM Government. Solved a series of cyber
security challenges and invited to the next stage.

2016/7 | UK Bebras Computational Thinking Challenge

Achieved a distinction, awarded to the top 10% of participants.

LINKS

Github:// [efbicief](#)

<http://fbcf.xyz>

References available on request.