Toby Towler

Computer System Engineer

Downham Cottage,
Ashfiled cum Thorpe, IP14 6LX
(+44) 07913 025249
Tobytowler11@gmail.com
Github
LinkedIn

PROJECTS

TType

C++, nCurses, TUI

Terminal based typing speed game written in C++. ncurses library for text user interface.

Maths Interpreter and plotter

F#, C#, Functional Programming

Maths interpreter allowing many operations, variable assignment and graphing.

Digital Traffic Light Control System

Quartus, Logic, FPGA

II developed a system to control the flow of traffic using digital logic gates.

"Bop It" Type Device

STM32, C, User experience, embedded systems

I developed an embedded system using an STM32 board and various sensors requiring a series of inputs from the user at varying difficulties for points

Analogue Amplitude Modulation

Analogue electronics, frequency modulation, device calibration

I developed a system to take digital audio from a computer, finetune frequencies of the electronic signal, transmit it across a metal bar, and convert it back to digital audio

SKILLS

Programming languages - C++, C, Python, Java, Lua, Bash, F#, C#

Version management - Git, Github

Embedded systems - STM32, low level C

Operating Systems - Fedora Linux, Bash, Windows

Teamwork and management - Project organisation, task delegation, time management

Presenting - Presented many university courseworks, confident demonstrator, Answering questions from customers about procedures or products

EXPERIENCE

Sainsburys, Ipswich/Norwich *- General Online Assistant and Driver*

Dec 2021 - PRESENT

- Working in a team, organising and distributing products
- Customer interactions

BT, Adastral Park *- Work Experience*

July 2019 - July 2019

- Developed several web pages
- In a team recreated a website

EDUCATION

University of East Anglia, Norwich *- Computer systems engineering Beng*

Sept 2022 - June 2025

- Achieved over 70% in my first and second years
- On track to achieve a first as my final grade
- Modules in Embedded systems, programming, electronics, networking

Hartismere Sixth Form, Eye *- A Levels*

Sept 2020 - June 2022

- Physics - B
- Computer Science - B
- Mathematics - D

Debenham Highschool, Debenham *-GCSEs*

Sept 2015 - June 2020

- Mathematics - 9
- Computer Science - 7
- English 4/5
- 6/7 in Physics, Biology, Chemistry, RE, DT, Histor