

Peter Gillingham

Email petergillingham80@gmail.com
Phone 07383 014163
LinkedIn www.linkedin.com/in/peter-gillingham

Personal Statement

A recently graduated student, awarded an Upper Second Class Honours for an Integrated Masters in Electronic Engineering with Music Technology Systems. My degree has given me a deep and broad knowledge base in electronics, programming, both software and hardware design, implementation and testing, mathematics and physics, and through the course my passion for software and technology has grown.

Education

Integrated Master's in Electronic Engineering with Music Systems Technology

September 2019–June 2023

University of York

This course has taught me and improved my knowledge in many areas, including electronics, software development, hardware implementation, embedded system design, networking, digital signal processing and data analysis.

A Levels - Computer Science, Mathematics and History

September 2017–June 2019

Moulsham High School

9 GCSEs including English and Mathematics

September 2012–June 2017

Moulsham High School

Work Experience

Production Operator

October 2021–Present

DJ Assembly

I have worked in all areas of production and manufacturing of electronic goods, including circuit assembly, box build, and inspection, testing and validation. I also gained experience in managing outgoing and internal stock and logistics.

Customer Assistant

June 2018–August 2020

Matalan

Worked in all areas of the store, with responsibilities including serving customers at the tills, management and selection of stock on the shop floor, and inventory management in the warehouse.

Technical skills

Programming Languages Python, Java (Maven, Spring/Sping Boot), C/C++ and MATLAB, Swift, JavaScript, VHDL, ARM Assembly Language, L^AT_EX and SQL
Technologies Git, VSCode, Microsoft Office, Linux, MacOS, Vivado Design Suite, Eclipse, Keil μ Vision 5, Emacs

Software Engineering Object Oriented Programming, Agile Methodology, Algorithm Design, Digital Signal Processing, Technical Writing, Database Design and Management

Electronic Engineering Circuit Design and Analysis, Hardware and Software Integration, Embedded System Design and Development

Achievements

- Undertook the development of an algorithm for a home battery storage and management system for my masters project, which led me to use genetic programming and implement the NSGA-II algorithm in Python, and data science techniques for the prediction of future energy use of a household, implemented in MATLAB, managing large datasets for both.
- Successfully managed and worked in a team to develop an interactive presentation system, complete with image, audio, video and text display and Python and JavaScript scripting capabilities, implemented in Java.
- Designed and developed elements of an operating system for an embedded ARM microcontroller, with a fixed priority scheduler, mutual exclusion, task waiting and a queue-based task communication system, implemented in C, with the ARM Assembly Language.
- Created a model of the human voice and a guitar through the use of physical modelling synthesis, implemented in MATLAB.

Interests

I have played guitar for over a decade, drums for four years, and have taken on the role of lead guitarist and audio engineer for my band, resulting in us releasing an album and playing multiple shows in York. I am also a keen and regular climber, both in climbing gyms and outdoors, and I also enjoy cycling in and around York.