

Angus Findlay

Electronics and Computer Engineering MEng (International)

The University of Leeds & KU Leuven

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Personal Profile

I am a passionate & high achieving student, enthusiastic about Computer Science and Electronic Engineering. Taking a joint degree means I can combine my software development skills with an in-depth knowledge of physical hardware. I am a creative programmer, familiar with a wide range of languages and paradigms, detailed below. I am especially interested in building high quality tools which will be used and appreciated by everyday people, especially technologies which can impact our daily lives & our environment in a positive way.

I am a UKESF (UK Electronics Skills Foundation) scholar, sponsored by Sky Labs, where I have interned for the last 2 summers. For the 3rd year of my degree, I studied abroad at KU Leuven in Belgium, following the Master of Artificial Intelligence course. This was very academically rewarding - I am very interested in programming languages and their design, which I learned about in depth during my studies there. I am currently completing my masters project in static code analysis & visualisation of object orientated codebases, a topic I love as it combines graphics and software architecture.

Education

KU Leuven, Belgium (Study Abroad Replacement Year), 2019 - 2020

I followed the Master of Artificial Intelligence programme while studying abroad at KU Leuven in Belgium, a university consistently ranked in the top 50 worldwide. A selection of module grades is shown below:

Computer Vision (90%)	Fundamentals for Computer Science (80%)
Formal Systems and their Applications (75%)	Data Mining (75%)

The University of Leeds, 2017 - 2021

Electronics and Computer Engineering MEng (International).

In my first year, I was awarded a place on the Faculty of Engineering's Dean's List, given to the top 5% of students in the 1st and 2nd years.

A selection of 1st and 2nd year module grades is shown below:

Digital Electronics & Microcontrollers (94%)	Compiler Design and Construction (93%)
Programmable Logic (94%)	Procedural Programming (96%)
Communications Networks and Signals (87%)	Embedded Systems Project (84%)
Programming Project (85%)	Computer Architecture (88%)

The Sixth Form College Farnborough, 2015 - 2017

A Levels: Mathematics A, Physics A, Computer Science B.

Industrial Work Experience

Sky Labs - Brentwood, Essex - Summer 2019 & Summer 2020

For the past two Summers I have interned at Sky Labs in Brentwood, where they design the hardware and software for Sky's consumer electronics such as routers and set-top boxes. I worked on a variety of projects, from research and development into smart home devices, to DevOps work for the software engineering team. I worked in a group of 3 interns for the main

project, which involved Bluetooth low energy communication. During the pandemic, we worked remotely every other week.

MortgageGym - Camberley, Surrey - Summer 2018

Paid Software Intern for 10 weeks over the summer break. MortgageGym is a startup price comparison website for mortgages, now majority owned by GoCompare. I directed the 'broker onboarding' project, which involved automating the process for brokers joining the site. I worked on this project for about 6 weeks, and built it from scratch to finish. I updated a lot of code in the backend Java API, Angular 6 frontend and the database. I worked in an Agile environment, using tools like Jira, Git, Bitbucket and Jenkins for continuous integration. I improved my communication and teamwork skills, taking part in daily meetings and video conferencing with remote workers.

Rushmoor Borough Council - Farnborough, Hampshire - Summer 2017

Digitising planning applications for the IT department, adding them to the GIS database.

Engineering and Computing Projects

Thesis / Masters Individual Project

For my masters thesis, I am writing an extension for Visual Studio Code to visualise the structure of Java programs.

Computer Vision / Machine Learning Project

I did several individual and group projects at KU Leuven during the masters module "Computer Vision", involving traditional and ML-based vision approaches, averaging a score of 90% overall.

Embedded C LoRa Project

In my 3rd year, I worked with a partner on an embedded systems project involving long range LoRa communications, programming an ATmega32 to reliably send long distance messages over a kilometre across the city, using as little energy as possible.

Song Score Website

Over the Winter break, I worked on a personal hobby project with a friend, a website using Python and the Flask micro-framework. I've later rewritten it in Elm and Go, then again in Elixir. This and other projects can be found on my Github.

Fintech 24-Hour Ethical Hackathon

I lead a team of 5 students during the School of Computing's 24-hour coding and design challenge, working with Yorkshire Building Society to create an app for the charity 'End Youth Homelessness'. We didn't win but it was a lot of fun!

Technical Skills & Abilities

I'm experienced writing **C**, **C++**, **Java** and **C#**. I've have worked extensively with **Python**, including TensorFlow, **JavaScript** (React, Angular2+, Node), REST APIs, SQL, Git and various UNIX tools during past internships. At university I have learned **MATLAB** as well as **Haskell**, **Prolog** and **Docker** at KU Leuven. I've taught myself **Go**, **Rust**, **Elixir**, **Clojure**, **Scheme**, **Elm**, and the Unity3D game engine.

Interests & Hobbies

As well as my interest in electronics and programming, I also love illustration, photography, and graphics, and often work on hobby projects involving user interface and user experience design. I am an active member of Leeds University Union's community food growing project 'Rooted' in the sustainable garden on campus, as well as the Conservation Society. I've also volunteered with a local Leeds school making electronic "buggies", which I found super rewarding, as well as working as a tour guide at the uni's open days and as a course rep for my programme.

References

Peter Daplyn - Senior Lead Developer, MortgageGym: peter.daplyn@googlemail.com

Dr Andrew H. Kemp - Form Tutor, Uni. of Leeds: A.H.Kemp@leeds.ac.uk

Dr Craig A. Evans - Current Course Manager, Uni. of Leeds: C.A.Evans@leeds.ac.uk