

# Finlay McAndrew – BEng Biomedical Engineering

## Personal Information

Full Name	Finlay Joseph Moray McAndrew
Date of Birth	30/05/2000
Email Address	finlayjmm@gmail.com
Mobile Number	+447539674468
Home Address	13 Arlington Street Glasgow G3 6DT
Website	<a href="https://finlay-mcandrew.co.uk/">https://finlay-mcandrew.co.uk/</a>

## Overview

Currently in my third year of biomedical engineering at the University of Glasgow, I am passionate about my course and fascinated by all the up and coming research and the constant innovation in the field. During the recent lockdown, I used the time to teach myself mobile app design achieving certificates in Kotlin and soon to be web design/JavaScript, and with so many new technologies in imaging and medical diagnostics, as well as implants and other rehabilitative devices, I'm really keen to get involved practically. With that in mind, I am looking to gain professional experience as an intern over the summer of 2021.

## Traits and Skills

- Innovative
- Hardworking
- Energetic
- Focussed
- Good communicator
- Team player
- Strong problem solver
- MATLAB and Simulink
- Kotlin
- Android App Design
- Web Design (HTML & CSS)
- JavaScript (Currently learning)
- Solidworks CAD

## Academic Achievements

Year 1 - Subject	Grade
Materials 1	A2
Engineering Skills 1	B1
Engineering Mathematics 1	B2
Biomolecular Processes 1	B2
Statics 1	B3
Analogue Electronics 1	C2
Intro to Biomedical Engineering 1	C3
Dynamics 1	D1
Thermodynamics 1	E2
GPA => 14.85 => 2:2	

Year 2 - Subject	Grade
Fluid Mechanics 2	A4
Mechanics of Structures 2	C3
Engineering Mathematics 2	D3
Analogue Electronics 2	CA
Biomaterials 2	CA
Design and Manufacture 2	CA
Biomedical Engineering Skills 2	A1
Dynamics 2	CA
Engineering in Biology 2	CA
Mechanical Design 2	A3
GPA => 15.15 => 2:1	

CA = Credit achieved; cancellations due to COVID-19

## **Education**

### ***High School – The Edinburgh Academy***

Subject	GCSE	Higher	Advanced Higher
Maths	A	A	A
Biology	A*	A	B
Chemistry	A*	A	B
Physics	B	B	
Mandarin	A*	A	
English	A (Nat 5)		
Art	C		
Business	C		

## **Experience**

### ***NHS Scotland – Western General & Royal Infirmary Hospitals – Edinburgh***

#### ***February 2017 ~ 1 week***

I shadowed a Cardiologist in the Western General and Royal Infirmary during surgical implantations of pacemakers and implantable cardioverter defibrillators. This let me see first-hand the importance of biomedical engineering in the medical world from ECGs to the implants themselves.

### ***NHS Scotland – Astley Ainslie Hospital – Edinburgh***

#### ***July 2018 ~ 1 week***

I worked with different healthcare specialists, in prosthetics, orthotics, spinal braces, and rehabilitation devices. I also shadowed work in a gait lab, analysing the walking patterns of patients with prosthetic limbs. Seeing at first-hand what rehabilitation engineering did for people's lives was truly inspiring. For example, creating wheelchairs with special controls for people who had lost more than just their leg function.

## **Employment History**

### ***Hummingbird – Bartender – Glasgow***

#### ***September 2019 ~ March 2020***

This job was hard, busy work with hours till the early morning and required extensive communication and teamwork skills as well as people skills.

### ***The Granary – Bartender/Waiter – Edinburgh***

#### ***June 2019 ~ August 2019***

Organisation skills were key for this job as well as communication and teamwork as it not only included restaurant waiting and bartending but managing and tending to events.

### ***Buffalo Grill – Kitchen Porter – Edinburgh***

#### ***May 2017 ~ September 2018***

As well as my other jobs this also required teamwork and communication however it also required reliability as the kitchen relies on everyone pulling their weight.

## **Hobbies and Activities**

### ***Cardiovascular Society***

- Biomedical Engineering representative and outreach officer
- Organising events
- Getting more engineering students involved

### ***App Development***

- Designing apps in my free time
- Familiar with Kotlin and UI design
- Completed 45-hour online course “The Complete Android 10 & Kotlin Development Masterclass” over summer ~ 2020

### ***Web Development***

- Currently working through the Zero to Mastery online course “The Complete Web Developer in 2021: Zero to Mastery” on full stack development
- Learning JavaScript, HTML, CSS, React.js
- Familiar with Bootstrap

### ***Fencing***

- Full Blue award (sports colours) for achievements in university fencing
- Glasgow University men’s first team
- Scottish student 5 nations team member ~ 2019
- BUCS north 1A championship winners ~2019
- Cadet and Junior Commonwealths team ~ 2018
- International British fencing team ~ 2017