

JAMES PATTERSON

CONTACT

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4th year Aeronautical Engineering undergraduate with extensive industry experience, seeking an engineering summer internship to gain a further knowledge of the engineering industry and develop my engineering skills.

EDUCATION

University of Glasgow, MEng Aeronautical Engineering, 2:1 expected **2017 to 2022**

- First 2 years of the course covered a broad range of engineering principles including civil, mechanical, electrical, aeronautical and specific engineering maths.
- 3rd year courses include more Aerodynamics and Fluid Mechanics, Aircraft Design, Control, Instrument and Data Systems, Propulsion and Turbomachinery; Aircraft Performance, Flight Mechanics, Aircraft Structure Analysis and Design and Aircraft Structures and Materials

Earlston High School, Berwickshire

2010 to 2016

2016 Advanced Higher: Maths (A); Physics (B) **Higher:** Business Management (B)

2015 Higher: Maths (A); Physics (A); Chemistry (A); Biology (A); History (A)

2014 National 5: Maths (A); Physics (A); Chemistry (A); History (A); English (A); Spanish (A); Modern Studies (B); Biology (B);

INDUSTRY EXPERIENCE

UTC Aerospace Systems Internship

Aug 2016 to Aug 2017

- Part of the development team creating the flagship DMU30. Duties included carrying out development testing – high g and low g tests - processing data recorded; creating test reports and programming units to name a few duties.
- Year-long project to design and develop a programme to interpret Inertial Measurement Units (IMU's) to represent data in a graphical user interface (GUI) to 'show off' flagship products at trade shows. Developed using various programming languages. GUI made up of 3 screens – accelerometer and gyroscopic measurements, an artificial horizon and a 3D model of the unit.
- My programme was presented at Sensors Expo in San Jose to customers such as Boeing and Airbus.
- Given the task of organising and creating new bill of materials for the Business Development team and customers.
- Had experience dealing with suppliers and customers for new product design, evaluation kits and improving data bases throughout different departments within the business

ADDITIONAL WORK EXPERIENCE

Self-Start Company, West End String, Glasgow

Sep 2018 to Present

- Saw a gap in the market for tennis stringing at Glasgow University.
- Provide a solution to university students looking for an affordable and convenient stringing service.
- Currently looking to expand the customer demographic.

Officer Cadet, Glasgow and Strathclyde Universities Royal Naval Unit (GSURNU) Oct 2018 to Oct 2019

- Developed a wide variety of skills from leadership and management to navigation/ship skills and discipline.
- Training orientated around leadership skills and working in teams in a high-pressure environment.

Tennis Coach, Neilson Active Holidays, Greece

May 2019 to Aug 2019

- LTA Level 1 coaching qualification, and further training at RPT Level 2.
- I learned to work under high pressure environments with long working days and with few days off, developing my resilience and adaptability to various situations.
- Developing the skills up to 40 guests per session, the ability to work quickly, concisely and with initiative was essential.
- Very positive guest feedback on my coaching performance.
- Constantly planned and developed various lesson plans for numerous types of sessions – from private lessons to Kids' Academy.

SKILLS

- MATLAB used at Uni – limited experience
- SolidWorks used 1st and 2nd year of Uni – limited experience
- LabVIEW used at UTC Aerospace Systems – limited to working knowledge
- Simulink used in 2nd and 3rd year of Uni - basic understanding
- Microsoft Office – working knowledge
- C programming language – basic understanding

AWARDS AND ACHIEVEMENTS

- Dux achievement medal in high school – attaining 5A's at Higher in 1 year.
- Achieved my grade 8 piano.
- Previously ranked top 25 in Scotland in tennis for my age group.
- Loughborough University Mathematics for ENgineers Module (LUMEN) - Pass with Distinction
- LTA Level 1 Coaching Qualification
- National Pool Lifeguard Qualification
- Elected as House Captain in high school
- Elected as Fundraising and Outreach Convenor for Glasgow University Sports Association

HOBBIES AND INTERESTS

- Tennis: play for the 2nd and 3rd university teams weekly nationwide.
- Coaching: regularly take coaching sessions for university players. I have introduced new tennis sessions for the club which I organise and lead.
- I regularly play 6-a-side football in the university leagues.

REFEREES

Lt Si Collins
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