

Gregor MacAskill

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Education

University of Glasgow	James Watt School of Engineering MEng Aeronautical Engineering Engineering Excellence List 2019, 2020, 2021 Vice President of Glasgow University Aerospace 2020 Predicted First Class Honours	<i>Expected 2018 - 2023</i>
Glasgow Gaelic School	Dux of School, Prefect, and Gaelic Ambassador Advanced Higher: Mathematics, Physics, Computing Science (AAA)	<i>2012 - 2018</i>

Engineering Experience

OirthirSAT

- AIT Engineer** *Jan. 2022 - Present*
- Competing for a £600k challenge fund to further the development of a climate mission nanosatellite as one of five shortlisted teams in LaunchUK's Nanosatellite Design Competition.
 - Designing a nanosatellite that utilises onboard processing to analyse shorelines to better inform scientists and policymakers on the impact of climate change on coastal areas.

GU Orbit Micro-Satellites

- Mechanical Team Leader** *May 2021 - Present*
- Responsible for recruitment, co-ordinating regular subteam communication, and allocating relevant tasks to each team member depending upon individual experience.
 - Spearheading the technical direction of the team by devising inventive design solutions that ensure structural integrity, thermal robustness, and manufacturability of the cubesat.
- Mechanical Team Member** *Oct. 2020 - May 2021*
- Programatically studied the deployment dynamics of tape spring booms used to deploy a drag sail to deorbit a 3U cubesat at its end-of-life mission phase.
 - Devised a viable housing solution using CAD to allow for effective storage, release, and deployment of a quasi-rhombic pyramid drag sail.

UGRacing Formula Student

- Driverless Vehicle - Motion & Control** *Aug. 2021 - Feb. 2022*
- Developed the vehicle dynamics model and accompanying control system for UGR's 2022 Driverless Vehicle by creating a PID controller that utilised EKF state estimation using MATLAB and Simulink.
- Combustion Vehicle - Vehicle Dynamics** *Oct. 2020 - Aug. 2021*
- Optimised key vehicle suspension parameters by remodelling the team's approach to suspension design through building upon historical research and solving complex optimisation problems.
 - Generated essential documentation to explain the solution methodology of suspension calculations to other subteam members and new recruits.

Work Experience & Volunteering

- Redcrest E.M.S. Medic** *May. 2019 - Present*
- As a medic at concerts, festivals, and sporting events, I ensure the safety and well-being of the general public by providing valuable first aid services in high-pressure, fast-paced environments.
- Scout Group Leader** *Aug. 2016 - Present*
- Having been involved in Scouting from the age of five, I volunteer as a leader at my Scout group through organising activities at weekly meetings and various camps.
- Direct Line Claims Handler** *Jul. 2018 - Dec. 2018*
- Resolved incoming calls from often distressed customers in an efficient and compassionate way while becoming well-accustomed to seeking help or advice when unsure of how to proceed.

Skills

Software MATLAB, Simulink, Python, SolidWorks, Abaqus, STAR-CCM+, L^AT_EX, HTML, CSS, Excel
Hardware Woodwork, Raspberry Pi, Arduino, PC building