

# JAN-HENDRIK EWERS

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Glasgow, Scotland

in <https://www.linkedin.com/in/jh-ewers>

## ABOUT ME

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3rd year PhD Researcher at the University of Glasgow exploring Machine Learning Driven Search and Rescue

## EDUCATION

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MEng Aerospace Systems

University Of Glasgow

September 2016 – June 2021

- With Honours of the First Class.
- Awarded the British Aerospace Engineering Systems Prize 2021 for the best industrially relevant final year project
- Selected for University of Glasgow's 2017 – 2021 Engineering Excellence Lists.

Secondary School

Ardnamurchan High School

August 2009 – June 2015

- Higher: Maths A, Physics A, German A, Geography B, Chemistry B
- Advanced Higher: German A, Maths B, Physics C

## RESEARCH EXPERIENCE

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MEng Project

- Exploring "Optimal Path Planning for Search and Rescue".
- Implemented multiple probability map based coverage path algorithms, as well as presenting a novel solution using numerical optimisation.
- Created a novel technique for polynomial spline trajectory generation along a path.

## SKILLS

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- Software: Python, MATLAB, C/C++, Linux, ROS/MAVROS/PX4, Java, Git, C#, SolidWorks, ANSYS Fluent
- Well versed in public speaking, leading teams and team communications.
- Languages: English (native), German (fluent), French (beginner)

## REFERENCES

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- Dr David Anderson  
Senior Lecturer (Aerospace Sciences)  
University of Glasgow  
Dave.Anderson@glasgow.ac.uk
- Dr Douglas Thomson  
Senior Lecturer (Aerospace Sciences)  
University of Glasgow  
Douglas.Thomson@glasgow.ac.uk

## EXPERIENCE

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Gibson Robotics

June 2020 – April 2023

- Systems Engineer (full-time / part-time)
- Leading development on systems for proprietary counter-UAV system over a 3 month contract.
- Achieved a top place on DASA (MOD) funding round.

BAE Systems

June 2019 – September 2019

- Intern (full-time)
- Oversaw various multi-million pound projects for WSM team whilst liaising with various other departments.
- Automated various processes saving 300 man hours per annum.
- Implemented new technology to streamline inter-team communications whilst helping the company achieve their paperless target.

Aerospace Systems Design Project

Academic Year 2019/2020

- Systems Engineer
- Led a small team to build upon a medium sized Search and Rescue UAV for Police Scotland Air Support Unit.

Glasgow Hyperloop

June 2018 – August 2019

- Embedded Systems Team Member
- Achieved a place in the semi-final of the 2019 Space X Hyper-loop Pod Competition.
- Helped develop the onboard communications network using CANOpen.

Teaching

Various

- *Engineering Maths 1, ASDP3, ASDP4, Robotics 4, and RTEP5* at the University of Glasgow.
- Private tutoring in Maths, Physics and Computing for school children.

Volunteering

Various

- Over three years of volunteering on committees in Glasgow University Sports Association clubs (Treasure for 2 years, President for 1 year) during undergrad.