Duncan R Hamill

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EDUCATION

Degree
MEng Aeronautics & Astronautics / Spacecraft Engineering *October 2016 - Present*
First Year
University of Southampton

Advanced Level
The Duston School, Northampton *September 2014 - July 2016*
- Mathematics, *EDEXCEL* - A*
- Further Mathematics, *EDEXCEL* - A*
- Physics, *OCR* - A*

GCSE
The Duston School, Northampton *September 2009 - July 2014*
- Maths, English Literature, Physics, Chemistry, Geography - A*
- English Language, History, ICT - A
- French, Resistant Materials, Graphics - B

SKILLS

Programming:	C#, LaTeX, HTML & CSS, Javascript, Python
Software:	Solidworks, MS Office Suite, Visual Studio, Git

EXPERIENCE

Cosworth, Northampton, UK *July 2015*
- I spent time shadowing engineers working in the Design Shop for two days, observed use of CFD and CAD software, and assisted in research.
- Afterwards I worked in the Build Shop for two days with Apprentice Technicians, disassembling OEM stock engines, and reassembling them with improved Cosworth components.

Rolls Royce, Derby, UK *March 2015*
- Spent one day shadowing an Apprentice Line Manager, touring the Trent engine manufacturing facilities and engine test cells.

PROJECTS

Lunar Hopper - Outreach Coordinator & Engineer *October 2016 - Present*
- An experimental Lunar probe that has been under construction by UoS MEng 4th year students for 5 years. The project was recently handed over to the Spaceflight Society. I am a member of the 4-man team working on bringing the hopper to working condition. This will involve a large amount of 3D printing, machining, coding and performance testing.
- Currently leading efforts to increase the project's use for outreach, partly to secure more funding but also to improve awareness of UoS's spaceflight experience.

Southampton University Human Powered Submarine - Safety Engineer *October 2016 - Present*
- Essentially a highly engineered underwater bicycle, the Human Powered Submarine is a large project involving many sub-system teams. I am a member of the control team and am currently working on the primary safety feature - the dead man's switch.
- My work involves giving the pilot the ability to warn support divers and the surface of any severe dangers, by deploying a buoy that will be tethered to the submarine. I am responsible for the transmission of the pilot's emergency signal to the release mechanism of the buoy.