Marcus Ackland

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Graduating June 2018

Education

Royal Institute of Technology (KTH) *2016–2018*
Master of Science, Aerospace Engineering. Space Systems, GPA: 5.0/5.0
– Teaching Assistant in Fundamentals of Spaceflight (Fall 2017)

University of Illinois at Urbana-Champaign, IL, USA *Spring 2015*
Exchange Semester, Department of Engineering
– Organizations: IPENG.

Royal Institute of Technology (KTH) *2011–2015*
Bachelor of Science, Engineering Physics, GPA: 4.6/5.0 (Top 10%)
– Organizations: Armada (Career fair), Student Union, Business Committee

Stockholm School of Economics *2013–2017*
– Courses in business and leadership

Rönninge Gymnasium *2008–2011*
Teknikprogrammet, GPA: 20.0/20.0
– Awarded diploma for highest GPA of all graduating students

Experience

SAAB Dynamics, Software Engineering Intern, Linköping, Sweden *Summer 2017*
– The project consists detecting and localizing pedestrians in IR images using a convolutional neural network.
– Decided on creating a 3-layer cascade net to speed up localization time for real-time application.
– Project concluded with a presentation before senior management.
Developed skills: C++, Python, Convolutional Neural Networks.

KTH Space Center, System Management Team for MIST, Stockholm, Sweden *Spring 2017*
– 1 of 2 student managers responsible for the project under direction of ESA Astronaut Christer Fuglesang.
– Main responsibilities include overseeing the experiments. This meant oversight of crucial aspects of building a satellite such as harness, on-board computer and power generation.
– MIST (MIniature STudent satellite) is a 3U CubeSat built by students at KTH and will perform 7 experiments and technology demonstrations. Launch is estimated 2018.

Royal Institute of Technology (KTH), Research Assistant, Stockholm *2016–2017*
– Currently working on a project at the Space and Plasma Physics department at KTH.
– Analyzing Hubble data of Europa that can be used to find ways of detecting plume activity on the surface.
Developed skills: MATLAB, Image processing.

Zhejiang University, Undergraduate Research, Hangzhou, China *Summer 2013*
– 15 students chosen in my year to partake in a physics project in China during the summer.
– Created a sensor using Raman-scattering that could detect proteins and diseases.
– Worked together with Ph.D. students at the university.
Developed skills: MATLAB, R, Poster-presentation.

Languages and Technical expertise

Languages: Swedish (mother tongue), English (fluent), German (elementary proficiency)
Programming: MATLAB, Java, Python, C/C++, OpenCV, R, ANSYS Comsol, LaTeX

Leadership and Extra-curricular activities

Head of Logistics, Physics chapter Career Fair *2011–2012*
– Asked by chairman to be project manager for the career fair 2014
– The project had a SEK 200 000 turnover
– Responsible for the logistics and led a team of 7 people during the fair

Awards

Henrik Göransson Sandviken Stipendie *2015*
– Awarded to students for excellent academic achievement at KTH.
– Awarded by GPA, one of 90 students at the entire university to be awarded the scolarship.

KTHs Allmäna Studerandestipendier *2015*
– Awarded to students for excellent academic achievement at KTH.
– Awarded by GPA, one of 90 students at the entire university to be awarded the scolarship.

Insamlings Stiftelsen för Internationellt Studentutbyte vid KTH *2015*
– Scholarship to enable students to study in the US for a semester.
– Awarded by GPA, motivation letter and letter of recommendation from faculty.