

EUAN JUDD

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euanjudd.github.io

EDUCATION

PhD in Robotics and Autonomous Systems

[SoftLab, University of Bristol](#)

Sept 2017 – present

Soft robotic sensor design optimisation using a genetic algorithm and machine learning.

Bachelor of Engineering in Mechanical Engineering (1st Class)

[Mechanics of Fluids, Soils and Structures Research Group, University of Aberdeen](#)

Sept 2010 – June 2014

Analysed flow-seaweed interactions at a blade scale for bio-fuel aquaculture.

PUBLICATIONS

E Judd, K M Digumarti, J Rossiter, and H Hauser, [NeatSkin: A Discrete Impedance Tomography Skin Sensor](#), *IEEE International Conference on Soft Robotics (RoboSoft)* 2020.

E Judd, G Soter, J Rossiter, and H Hauser, [Sensing Through the Body-Non-Contact Object Localisation Using Morphological Computation](#), Lecture presentation at *IEEE International Conference on Soft Robotics (RoboSoft)* 2019.

Y Liu, T Hu, H Ni, C Zhang, B Lin, and E Judd, [Design of a PC-based Open Industrial Robot Control System Integrated with Real-Time Machine Vision](#), *IEEE WRC Symposium on Advanced Robotics and Automation (WRC SARA)*, 2018.

EXPERIENCE

Teaching Assistant

[University of Bristol](#)

Sept 2019 – present

Introduction to Computer Programming (Python).

Management Trainee

[Burgess Management Consultants Ltd](#)

Apr 2016 – Jan 2017

Developed a project management application using Visual Basic.

Research Assistant

[Aberdeen Biomedical Imaging Centre, University of Aberdeen](#)

June 2013 – Aug 2013

Switching coil design for a Fast Field Cycling MRI.

Research Assistant

[Mechanics of Fluids, Soils and Structures Research Group, University of Aberdeen](#)

Feb 2013 – Apr 2013

Analysis of fluid flow over different riverbed compositions.

TECHNICAL SKILLS

Programming Languages	Python, MATLAB, Latex, C++, Arduino, Visual Basic
Operating Systems	Windows, Ubuntu, MacOS, ROS
Tools and Technologies	Machine Learning, Genetic Algorithms, Computer Vision, UR3 Robot Arm
Software	TensorFlow, SolidWorks, OpenCV, COMSOL, LabVIEW, FreeCAD
Workshop Skills	3D Printing, Casting, Laser Cutting, Soldering, Electronics

AWARDS

1st Place, Scottish Hydraulics Study Group Undergraduate Prize, Institution of Civil Engineers, 2014.

OUTREACH AND VOLUNTARY WORK

Volunteer

[Raleigh International Borneo](#)

June 2012 – Sept 2012

Helped build a kindergarten for disadvantaged children and a conservation project for an endangered bear species.