



# ANGUS B. CLARK

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## ACHIEVEMENTS

- Security Clearance (SC) 2016 - 2026
- DBS (Enhanced) Checked Jan. 2019
- SOLIDWORKS Associate Jun. 2015
- Current and clean driving licence

## ROLES

### REDS Lab

- Lab Manager 2019 - 2020

### Imperial College Underwater Club

- Trip Officer 2018 - 2020
- Treasurer 2019 - 2020

### STEM Ambassador

- Ambassador 2019 - 2020

### Coral Cay Conservation

- Scientific Diver 2017

### Southampton University Engineering Society (SUES) Rugby

- Vice President 2015 - 2016
- President 2016 - 2017

### Southampton University Engineering Society (SUES)

- Treasurer 2015 - 2016

### Southampton University Ballet Society

- Treasurer 2015 - 2017

## SKILLS AND INTERESTS

### Programming Languages:

Python, C

### Application Development:

XCode/Eclipse IDE/Android Studio

### Software:

SolidWorks, Fusion360, Mathematica  
MATLAB, Arduino, LabView, Unity  
Adobe CC Suite, Microsoft Office

### ABRSM Music Qualification

- Grade 7 Piano
- Grade 8 Saxophone

### Qualified SCUBA Diver

- PADI OW, AOW, Rescue
- BSAC DL, ADI

### Stagecoach Theatre-Dance-Singing Group (2004-2012)

References available on request

## EDUCATION



**PhD, DIC Design Engineering**  
**Imperial College London**  
**2017 - 2021**

- Research Interests: Robotic Manipulation, Robotic Grasping, In-hand manipulation, Prosthetics and Exoskeletons, Underwater and Space Robotics
- Graduate Teaching Assistant, Laboratory Technician, Laboratory Manager



**MEng Mechanical Engineering (2:1)**  
**University of Southampton**  
**2013 - 2017**

- As part of an 8 person team, designed and built a bio-inspired research platform for use in the deep ocean using co-ordinated fins for propulsion
- Programmed an Xbox Kinect to serve as a diagnostic tool for breast cancer
- Designed a first-of-a-kind 3D printer, achieving the highest marks for the module
- Designed and programmed an award winning path-following robot



**A-Levels: A\*ABB**  
**Glyn Technology School**  
**2006 - 2013**

- Maths, Further Maths, Physics, Chemistry
- Young Enterprise (Surrey Finals, best use of technology), and Extended Project

## PUBLICATIONS

Multiple (10+) publications in top robotics conferences and journals.

Recent publications (more available at website above):

- Stiffness-tuneable limb segment with flexible spine for malleable robots (*ICRA 2019*)
- Assessing the performance of variable stiffness continuum structures of large diameter (*RA-L/RoboSoft 2019*)
- OLYMPIC: A modular, tendon-driven prosthetic hand with novel finger and wrist coupling mechanisms (*RA-L 2020*)
- Design and workspace characterisation of malleable robots (*ICRA 2020*)
- An origami-inspired variable friction surface for increasing the dexterity of robotic grippers (*RA-L/ICRA 2020*)

## WORK EXPERIENCE

### Combat Systems Engineer

**BMT Defence**

**Jul. 2016 - Sept. 2016**

- Designed and created tools for optimising current and future combat systems
- Placement duration was extended, and I was awarded a bursary for my final year

### Engineering Technology Consultant

**Isle Utilities**

**Jul. 2011 - Jul. 2014 (Vacation Employment)**

- Involved data entry and classification of developing technologies in the water sector

### Application Developer

**Thames Water**

**Jul. 2013 - Aug. 2013**

- Designed and implemented an application for tracking wastewater site availability

### Civil Drafter

**ATKINS**

**Jul. 2010 - Aug. 2010**

- Developed a piping system beneath a reservoir utilising technical drawings