

# TZE HO ELDEN TSE

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## EDUCATION

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### University of Birmingham, United Kingdom

*Feb. 2020 - present*

Ph.D. in Computer Science

Research interests: Machine Learning, Transfer Learning and Computer Vision

### Cranfield University, United Kingdom

*Sept. 2018 - Jun. 2020*

PGDip in Engineering Competence

Part of BAE Systems graduate scheme

### University of Oxford, United Kingdom

*Oct. 2014 - Jul. 2018*

M.Eng in Information Engineering (First Class Honours, 78%)

Related modules: Machine Learning, Applied Mathematics and Statistics,

Control Theory, Software Engineering and Optimisation Theory

### Cambridge Tutors College, United Kingdom

*Sept. 2012 - Jun. 2014*

GCE A-Levels: A\*A\*A\*A in Maths, Further Maths, Physics and Chemistry

## PROJECTS

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### Master thesis: Multi-Modal Person Follower

This project is about acoustics perception in mobile robotics. Deep architectures are leveraged for representation learning. The thesis is awarded 82% as it is recognized as publishable work by the university.

### No Need to Scream: Robust Sound-based Speaker Localization in Challenging Scenarios

The thesis above is translated into an academic paper. The paper is accepted and published in The Eleventh International Conference on Social Robotics - ICSR 2019.

### Affordable Wearable Technology for Disrupting the Prosthetic Limb Market

In this third year group project, I designed and built an Arduino microcontroller with applied machine learning algorithms for prosthetic mode selection.

## TECHNICAL STRENGTHS

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### Programming Languages

MATLAB, C, C++, Python, VHDL

## WORK EXPERIENCE

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### BAE Systems, United Kingdom

*Sept. 2018 - Present*

*Graduate Engineer*

- A 2-year graduate scheme with 4 six-month placements
- First placement: Analogue/Digital Hardware Sensor Design for Eurofighter Typhoon
- Second placement: Programmable Logic Device (PLD) verification for F-16 head-up-display (HUD)
- Third placement: Artificial Intelligence Business Strategies with Innovation and Growth Team
- Forth placement: PLD Training

## EXTRA-CURRICULAR

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Alongside my main role at BAE Systems, I was selected to be the Campus Manager for University of Surrey and Early Careers coordinator for Rochester site. I am passionate about encouraging young people into STEM careers, and therefore have become a site STEM ambassador and helped organising career events. I am also a member of Institution of Engineering and Technology (IET), working towards professional engineering charteredship (CEng).

During my university studies, I was the Vice-President of Oxford Hong Kong Scholars Association and Sponsorship Officer of Oxford University Engineering Society. I also co-founded IN[SCI]TE, a STEM conference at Oxford (see <http://inscite.co/oxford/2016/>).