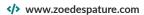
# **ZOË DESPATURE**





#### zoe.despature@gmail.com

## **ACHIEVEMENTS**



### Master's Thesis in Human-Robot Interaction, Prof. Dr. Dario Farina

 Control algorithm optimisation for lower limb exoskeleton using electromyography data processing



# Andrew Jones Young Person of the Year [link]

- Recommended by 8 colleagues amongst all employees under 25, selected among nominees from different companies
- Recognised for hard work, dedication, and strong potential for leadership



## 1<sup>st</sup> Prize Winner of Imperial College Health Hack

Clinched 1st Price amongst 15 teams under "Wearable Posture Adjusting Device" category

## **COURSES**

Comp Neuro



Computer Vision

Optimisation

Reinforcement Learning

Advanced Signal Processing

**Brain-Machine Interfaces** 

## **SKILLS**

HardSoftTypescriptAdaptabilityReact JSEmpathyAWSResponsibilityPythonCuriosityMATLABCan-do attitude

## **LANGUAGES**

French
English
Swiss-German
German
Italian
Dutch



## **EDUCATION**

## Imperial College London

#### MEng in Biomedical and Electrical Engineering

iii Oct 2017 - Jun 2021

London, UK

## Singapore International French School

French High School Baccalaureate, Mathematics

**Sep 2011 - Jun 2017** 

Singapore

## **EXPERIENCE**

## CSEM (Swiss Center for Electronics & Microtechnology)

#### **Full-Stack Engineer Intern**

February 2024 - July 2024

■ Inselspital, University Hospital of Bern

Tri-National: 🚺 🚺 💥

- Working in collaboration with medical doctors at Inselspital Bern to develop a BLE wearable and parse its data according to specifications
- Designing clinical trial environment in Paediatric Oncology

## Irdeto - Innovation through cybersecurity

#### **Software Engineering Graduate Program**

November 2021 - September 2023

Hoofddorp, Netherlands

- Led and managed the successful migration of a partner portal as part of a Salesforce CRM migration, resulting in 70% increase in data accuracy
- Managed and delivered complex project on time and 11% under budget, coordinating with cross-functional teams and over 100 stakeholders
- Worked as an Android back-end developer, using Android APIs in Java to investigate obtainable metrics for Android TV

# Schlumberger Technology Center

#### **Back-End Software Engineering Intern**

**i** July 2021- September 2021

Oxford, UK

- Worked on the backend layer of a cloud-based application, utilizing Golang and hosted in Docker containers on the Google Cloud Container Engine (GKE)
- Leveraged cloud native functionality to design, implement, and test a RESTful API for a
  data analysis job, resulting in improved data processing capabilities

#### Nowlan Lab

## **Research Assistant in Image Processing**

iii October 2019 - March 2021

■ Imperial College London, UK

- Image segmentation of mouse embryo bone scans to study fetal bone deformation under dynamic mechanical loading in Prof. Niamh Nowlan's lab
- Assisted postdoc researcher in the publication of a scientific paper in the field of developmental biomechanics [link]
- Optical projection tomography for chick & mouse embryo femur, 3D reconstruction using Fourier Domain Reconstruction Algorithm

#### Stent-Tek/Pathfinder Medical

#### **Electrical Engineering R&D internship**

**J**uly 2019 - September 2019

London, UK

- Participated in the development of novel electronic system which creates vascular access for dialysis patients
- Programmed micro-controller for digital processing of biomedical signals, and developed instrumentation for electrode data collection and processing