

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

1st 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

Hard

Typescript
React JS
AWS
Python
MATLAB

Soft

Adaptability
Empathy
Responsibility
Curiosity
Can-do attitude

LANGUAGES

French
English
Swiss-German
German
Italian
Dutch



EDUCATION

Imperial College London

MEng in Biomedical and Electrical Engineering

 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

 February 2024 - today

 Inselspital, University Hospital of Bern

- Worked with medical doctors at Inselspital Bern to parse BLE wearable data and design a custom clinical trial environment in Paediatric Oncology
- Designed and integrated APIs to deliver data to web interfaces, tested and implemented end-to-end system functionality using AWS services, TypeScript, and React

Irddeto - 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

 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

 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

 July 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