



EDUCATION

UNIVERSITY OF CAPE TOWN | BSc. (HONOURS) IN MECHANICAL & MECHATRONIC ENGINEERING

2015-2018, Cape Town | Cum Laude distinction

- See online portfolio (link above) for a selection of projects
- Full transcript of engineering courses available on request
- As the Main Head of Marketing at UCT's Society for Effective Altruism, I initiated a series of weekly discussion events to explore ways people and institutions can improve the world. This attracted our first 20 regular members.

CAMPS BAY HIGH SCHOOL | NATIONAL SENIOR CERTIFICATE (SA)

2011-2014, Cape Town | 7 distinctions

- 1st Team Field Hockey, Provincial Chess and 1st Team Captain, 1st flautist in Chamber Orchestra and School Band

FRENCH DISTANCE EDUCATION (CNED) | NATIONAL DIPLOMA (FR)

2007-2012, Cape Town

INTEREST

USER-CENTRED DEVELOPMENT OF IOT

Age	23
Nationalities	South African French
Based in	Cape Town
Code B driver	Since Feb 2015
Languages	English(Native), French (Native), Spanish (C2 level)

SOFTWARE DEVELOPMENT

Languages	C, Python Angular, Assembly Javascript (ES6) Typescript
Frontend	Redux, ReactJS React Native, Ionic

SYSTEM DEVELOPMENT

CAM	NI LabVIEW
Numerical modelling	Python, Matlab MathCAD
Multifunction I/O	NI USB-6009
Signal conditioning	NI DAQ-mx
Control system	SimulC
Data acquisition	NI DAQ-mx
Stats computing	R
MCUs	STM32, Arduino
3D modelling	Solidworks
Circuit Design	LTSpiceVI

CURRENT MOOCS

Deep Learning	Python
Backend	NodeJS
VCS	Git
Database	MongoDB
Infrastructure	Docker

EXPERIENCE

PURPLE DOT LIGHTING DESIGNS | ENGINEERING INTERN

Jan 2016 | Johannesburg

Pick-up Sticks is a custom light fitting that was commissioned by PDL Designs. I manufactured the fitting: from machining, electrical wiring to finishing.

CAPE TOWN TUTORS & TEACH ME 2 | ACADEMIC TUTOR

Feb 2016 - Present | Cape Town Area

Individual tutoring in high school/university Mathematics, English and French, tallying 200+ hours. Intensive tutoring of 4 students in particular.

CAPE PENINSULA UNIVERSITY OF TECHNOLOGY | TRAINEE

November-December 2017 | CPUT Bellville Campus, Cape Town

A training course to provide practical experience in CNC, pneumatics, machining, lathing, turning and TIG welding.

SENIOR RESEARCH PROJECT | RESEARCHER & COORDINATOR

Feb 2018 – Oct 2018 | Mechanical Engineering Department, Cape Town

I proposed a project to design and develop Dynamics App, a mobile app for off-campus student-tutor interaction. The students post their questions on a feed of posts and comments, and in so doing, notify the tutor on their phone. Under supervisor Bruce Kloot, the app was implemented in two undergraduate engineering courses at UCT. I adopted a qualitative framework to survey and interview course members. I iterated five app versions from these insights.

AWARDS

2018	Cum Laude (Honours) distinction in Engineering	2014	Highest Marks in June and September Examinations
2018	Valedictory Speaker (UCT)	2014	Best General Knowledge
2017	Dean's Merit List (2015-2017)	2014	ABRSM Gr. 8 Flute/Recorder
2014	All Rounder Award (CBHS)	2014	40th in SA's English Olympiad