

# Curriculum Vitae

Elle Mouton

**Date of Birth:** 20/08/1997

**Nationality:** South African

**Phone:** 071 118 6141

**Email:** [elle.mouton@gmail.com](mailto:elle.mouton@gmail.com)

**Home Address:** 6 Leeuwendal Crescent, Gardens, 8001

**Social Media Links:** [LinkedIn](#), [Github](#), [Instagram](#), [Facebook](#)

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## Personal Statement

I am an electrical and computer engineer in training and currently in the process of completing my BSc degree in Electrical and Computer Engineering at the University of Cape Town. I take great interest in all things to do with computers and other electronics and therefore I have a great passion for my studies and this has resulted in me being an extremely keen and hard worker. Solving new problems is one of my greatest joys and I especially like doing so with a team of people as it allows me to learn from observing how other people approach a problem. Ultimately my goal is to have a career where I am constantly challenged and able to contribute to solving new problems.

I have recently taken a special interest in the fascinating world of cryptography, Bitcoin and the Lightning Network. I started taking an interest in the workings of Bitcoin and the Lightning Network at the start of 2019. I have since worked my way through the books *Mastering Bitcoin* and *Programming Bitcoin*. I enjoyed the logical aspect of the cryptocurrency world so much that I decided to incorporate it into my final year project with which I am currently busy completing. My final year project is the development of an incentivised mesh-network using Bitcoin and the Lightning Network.

## Education

2016 - present: BSc in Electrical and Computer Engineering at the University of Cape Town.

2019: I am currently taking the following courses:

Research Project (Final Year Project)

Professional Communication

New Venture Planning

Industrial Ecology

Digital Systems (89%)

Digital Signal Processing (84%)

Introduction to C++ and Operating Systems (91%)

Engineering Design (79%)

Law for Engineers (70%)

2018:

Electromagnetic Engineering (100%)

Computer Science 2001 (Data structures and databases) (91%)

Computer Science 2002 (Parallel and concurrent computing)(88%)

Control Systems Engineering (100%)  
Design Principles (84%)  
Electronic Devices and Circuits (89%)  
Signals and Systems 2 (93%)  
Electrical and Computer Engineering Design (89%)  
Embedded Systems II (89%)

2017:

Analogue Electronics (96%)  
Embedded Systems 1 (89%)  
Vector Calculus (94%)  
Intro to Engineering Mechanics (95%)  
Signals and Systems 1 (97%)  
Linear Algebra and Differential Equations (94%)  
Electromagnetism (84%)  
Introduction to Power engineering (81%)

2016:

Mathematics 1 (82%)  
Mathematics 2 (100%)  
Physical Sciences 1 (82%)  
Physical Sciences 2 (87%)  
Intro to Electronic Engineering (82%)  
Intro to Electrical Engineering (90%)  
Computer Science 1 (Python) (90%)  
Computer Science 2 (Java) (85%)

2011- 2015: Rustenburg Girls' High School (RGHS), Rondebosch, Cape Town.

Matric subjects:

Mathematics (99%)  
Physical Science (93%)  
Information Technology (90%)  
Life Sciences (94%)  
Geography (95%)  
English Home Language (82%)  
Afrikaans First Additional Language (94%)

## Experience

- I worked as the production secretary during the making of a film in the UK where I was responsible for various administrative tasks.
- I completed a two week bootcamp internship at MWR InfoSecurity where I spent my time learning and doing website penetration testing.
- I completed a 5 week internship at Aerobotics as a data scientist intern.
- I have worked as a part time model for a total of 5 years. I spend 4 years at The Circle Model management and 1 year at Twenty Model Management.

## Programming Languages

Java, Python, C++ and Go

## Courses

2019: Completed the *Go: The Complete Developer's Guide (Golang)* on Udemy.

2018: Completed the Front End Development course offered by [www.freecodecamp.org](http://www.freecodecamp.org).

2017: Enrolled in the online machine learning course offered by Stanford University.

2016: Cape Peninsula University of Technology basic mechanical skills course (basics in hand skills, welding, robotics and pneumatics)

## Academic Record

2019:

- Received certificate of excellence for first semester computer science course (CSC3023F)

2018:

- Awarded the Bain Merit award which goes to the highest achieving 3rd year engineering student across all disciplines.
- Awarded the overall 3rd year Class Medal for Electrical and Computer engineering
- Achieved an overall GPA of 88%
- Received certificate of excellence for first and second semester computer science courses (CSC2001S and CSC2002S)
- Received the Peralex Electronics Prize awarded to the best student in the Embedded Systems II course (EEE3094S)
- Deans Merit List

2017:

- Awarded the overall 2nd year Class Medal for Electrical and Computer engineering
- Received the Bain Merit Award prize (Awarded to the top two students in second year Engineering)
- Received the Bain Celebrating Women in Engineering award (Awarded to the top woman academic achiever in second year Engineering)
- Achieved a GPA of 89%
- Deans Merit list

2016:

- Received a certificate of excellence for first year computer science.
- Achieved a GPA of 86% for my first year of study. This includes receiving 100% for first year mathematics.
- Took part in a team of four in the annual Standard Bank programming challenge.
- Deans Merit List

2015:

- Final matrix exam:
  - Certificate for being ranked 1st in Life Sciences (Biology) at RGHS
  - Certificate for being ranked 1st in Geography at RGHS
  - Achieved distinctions in all eight subjects
- Selected by RGHS to represent the school at the annual MINTEK physical sciences challenge.

2013-2015: Received full academic colours (over 80% aggregate for each year).

## Skills

- Leadership skills:  
I have developed great leadership skills through out my sporting activities as I have been named captain of three touch rugby teams that I have been apart of.
- Self-reliance:  
I traveled to the UK for eight weeks by myself at the end of my final school year and in this time I have learnt about how to think and act for myself. I am also very good at working independently.
- Communication:  
While in the UK, I worked as the production secretary on the set of an independent film for five weeks. In this position, I was constantly required to interact with people in various lines of work and so I learned how to improve my communication skills. I speak both English and Afrikaans fluently.  
During my time working as a model I also learned how to communicate effectively with people from all different types of backgrounds and nationalities.
- Time management:  
Because of my studies, sporting and music commitments, I have developed very effective time management skills.
- Languages:  
English and Afrikaans

## Extra-curricular

I like to keep fit by rock-climbing, kitesurfing, mountain biking and skateboarding. I was captain of RGHS first touch rugby team and also represented Western Province at the National Championships from 2012-2016.

I received grade five level in Spanish guitar.

I also enjoy traveling and experiencing different cultures and ways of thinking. I lived in Seattle, USA with my family for four years and have traveled to the UK, Portugal, France and Australia.

## References

### **Benji Meltzer:**

CTO at Aerobotics where I was a data science intern for 5 weeks.

Email: [benji@aerobotics.com](mailto:benji@aerobotics.com)