

Curriculum Vitae

Elle Mouton

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Date of Birth: 20/08/1997
Nationality: South African

Personal Statement

I am an electrical and computer engineer in training and currently in my fourth year of a BSc 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 a career where I am challenged and able to contribute to solving new problems. I have a special interest in the fascinating world of machine learning, artificial intelligence and cryptography.

Education

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

2019: I am currently taking the following courses:

- Digital Systems
- Digital Signal Processing
- Introduction to C++ and Operating Systems
- Engineering Design
- Law for Engineers

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

- Completed a two week bootcamp internship at MWR InfoSecurity.
- 5 week internship at Aerobotics as a data scientist intern.

Programming Languages

I have experience in Java, Python, C++ and Javascript.

Courses

2018: Completed the Front End Development course offered by 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

2018:

- Awarded the overall 3rd year Class Medal for Electrical and Computer engineering
- Achieved an overall GPA of 88%
- Received certificate of excellence for first semester computer science course (CSC2001S)
- 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.
- Computer and laboratory:
 - I have intermediate skills and understanding in Java, Python and C. I am also proficient in Microsoft Word, Excel and Power Point. I have also developed laboratory skills through my engineering course.
- Time management:
 - Because of my studies, sporting and music commitments, I have developed very effective time management skills.

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

Mrs Jayne Mouton-Chard

Producer of the movie for which I worked as the production secretary

Email: jayne@hummingbirdfilms.co.uk