

SHEKHAR SINGH

Mechatronics Engineering Graduate

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A UCT graduate in Mechatronics Engineering with a background in electromechanical design, and software engineering. Gained experience and training in Electrical and Mechanical engineering. In possession of strong leadership and communication skills due to numerous leadership positions occupied from a young age.

PROFESSIONAL EXPERIENCE

Microsoft AppFactory Intern

OptiSolutions

📅 Dec 2020 – Present

📍 Cape Town, WC

- I joined the Microsoft AppFactory internship programme through OptiSolutions, where I've gained more software development experience. Achieved skills in Node, Git/Github, PowerApps, Azure, and app development.

Faculty Tutor

University of Cape Town (EBE Electrical department & EBE Mechanical Department)

📅 Feb 2017 – Dec 2020

📍 Cape Town, WC

- Tutored in mechanical and electrical design using various design programmes (including SolidWorks, AutoCAD, Altium Design, and KiCAD). I've also lectured some classes, and in doing so, I've gained teaching experience and further knowledge in each programme.
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Academic researcher

University of Cape Town (EBE Electrical department)

📅 Dec 2019 – Jan 2020

📍 Cape Town, WC

- Worked as a student researcher for a professor in an academic project regarding ultrasonic applications for medical use.

Apprentice

ND Engineering

📅 Jun 2016 – Aug 2016

📍 Durban, KZN

- Worked as an apprentice with a group of other university students in which we trained in various departments in the this industrial company. I further developed my skills in fitting, turning and welding, as well as learned new skills in the manufacturing and assembly departments.

Apprentice

Intech Instrumentation

📅 Nov 2015 – Jan 2016

📍 Durban, KZN

- I worked under a team of mechanical and instrumental engineers, where I first learned trade skills involving fitting, turning, and welding.
- The company has specialized engineers of various fields, and with the workshop based in the Shell Chemicals PTY LTD plant site, I furthered my knowledge of electrical and instrumentation by working under the electrical team to maintain the electrical aspects of the plant.

SKILLS

PROFESSIONAL:

Leadership abilities Creativity
Interpersonal skills Critical thinking
Problem solving
Customer service skills Teamwork skill
Communication Adaptability
Conflict Resolution Decision making
Organization

ENGINEERING:

Welding Fitting Turning
PCB design Electronic design
Mechanical design
Controls System design

PROGRAMMING:

C/C++ Embedded Systems Python
HTML/HTML5 CSS Javascript
jQuery MATLAB Node/Express
LaTeX

SOFTWARE:

Microsoft Office Suit
MATLAB/SIMULINK PowerApps
Azure SolidWorks AutoCAD
Fusion360 Adobe Illustrator
Adobe Photoshop Adobe Lightroom
Adobe After Effects
Adobe Media Encoder
Autodesk Sketchbook

HOBBIES:

Photography Photo editing
Videography Graphics design
UX design

COMMUNITY & VOLUNTEER WORK

Community Outreach

(Various organizations)

📅 2013 – Present

📍 Cape Town, WC & Durban, KZN

- Volunteered my services in many feeding schemes in different organizations over the years. These organizations include religious and academic societies, outreach programmes at the university, and small charity drives with my family over the festive period.

Animal Rescue

SPCA & LEAPs

📅 Feb 2017 – Dec 2019

📍 Cape Town, WC

- At the LEAPS Adoption Agency NGO and the Cape Town SPCA, I've volunteered my services in taking care of the dogs almost every and to promote the adoption of the dogs in the shelters.

EDUCATION

BSc Electrical Engineering (Specialising in Mechatronics)

University of Cape Town

📅 2020

📍 Cape Town, WC

Matriculant Pass

Crossmoor Secondary School

📅 2014

📍 Durban, KZN

- Graduated with six (6) distinctions.

ACHIEVEMENTS

- 2018:
 - Chairperson of the UCT Hindu Student's Society
- 2017:
 - Member of MENSA South Africa
 - Sub-committee member of the UCT Hindu Student's Society
- 2016:
 - Class medal for Physics
- 2014:
 - 3rd Academic position award (Crossmoor Secondary School)
 - Deputy Head Prefect
 - Student Council President
 - Graduated from the MMI Mathematics and Physics programme
- 2013:
 - Student council treasury
 - CADSSA Table tennis (District team)
- 2012:
 - Representative on the student council
 - Graduated with black belt in Shotokan Karate
 - Invited into the MMI Mathematics and Physics programme

LANGUAGES

English

Afrikaans

Hindi



REFEREES

Mr. Julian Kanjere

Supervisor, AppFactory Team

📍 OptiSolutions

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Mrs. Charmaine Findeis

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