



Jess Koekemoer

Computer and Electronic Engineering Student,
Final Year



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Social Network



LinkedIn Profile Page Link



GitHub Page Link

Programming



Matlab and Simulink



SQL



LaTeX



Delphi



C++



C# , C



PLC Ladder Logic



Python



HTML, CSS



PHP



JavaScript

Other Files



Visual Art Portfolio



Dragon Tower Defence Game

Personal Statement

I am a final year Computer and Electronics Engineering Student with background knowledge of numerous engineering processes and ethics.

I have experience regarding several programming languages, embedded programming, and building basic circuit elements, such as amplifiers, LCD display connections, and filters. I have utilized my programming skills to perform data analysis, handle databases, make timing operations, create small games, and write documents.

I always aim to broaden my horizons and gain experience.

Working Experience

03/19 – 06/19	Lecturer's Assistant	North West University
	Responsible for helping students participating in the algorithms and optimization module, assessing their performance, and organizing various paperwork.	
06/18 – 08/18	Intern	NWU Solar Car
	Participant in multidisciplinary team, made a detailed marketing plan and budget, created logos and clothing designs for the team, and improved personal presentation and leadership skills.	
06/17 – 08/17	Intern	NWU Solar Car
	Participant in solar car manufacture, including supervising the robotic arm, carbon fibre moulding, sanding, designing the car's control panel layout, and cleaning of the workshop premises.	
04/13 – 05/13 , 04/14 – 05/14	Volunteer	RSPCA Klerksdorp
	Kept rescued animals fed, clean, and socialized; played a key role in several pet adoptions; and performed maintenance on the enclosures.	

Education

2015 – 2019	B. Eng Electronic and Computer Engineering	North West University
	(Currently in final year of completion)	
2014	Naional Senior Certificate	Curro Klerksdorp
	Matric certificate for 7 subjects, including Information Technology (7), Mathematics (6), Natural Science (5), and Engineering Graphics and Design (6).	

Professional Certificates

2017	Siemens S71200 Micro Course (TIA-MICRO1)
2017	Cisco CCNA Routing and Switching
2016	Siemens S71200 Micro Advanced Course (TIA-MICRO2)
2015	Certified SolidWorks Associate (CSWA)

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Languages

- English
- Afrikaans
- Portuguese

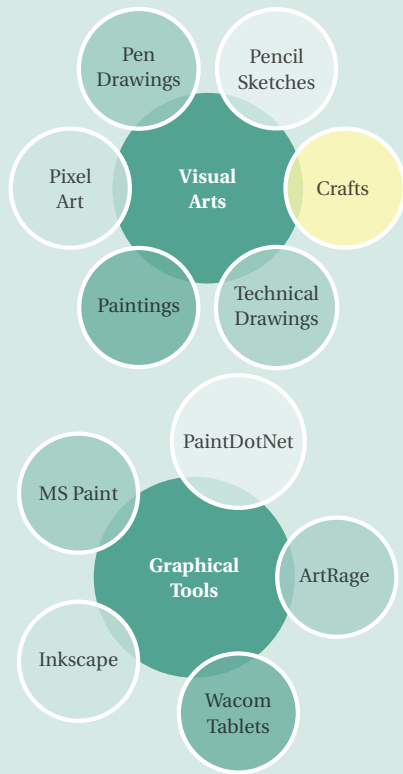
Final Year Project

My final year project involves the creation of a high-performance library for geographical use.

The library must contain functions which are able to extract a path or elevation profile based on provided coordinates, digital elevation models, and calculation options.

In order to solve this complex engineering problem, extensive research and planning had to be conducted. After a detailed design was created for the solution, the first versions of the library and an independent GUI were created in Matlab.

Graphical Skills



Technical Skills

- Matlab and Simulink: Data analysis, neural networks, GUIs, telecommunication simulations, and more
- MS Office: Excel, Word, PowerPoint, Access, Visio, Project
- LaTeX: (This document included)
- SolidWorks: Mechanical parts, assemblies, and electrical routing
- LTSpice: Circuit simulation and custom components
- Multisim: Circuit simulations
- Cisco Packet Tracer: Network simulations
- Fritzing: Circuit schematics and PCB design
- Git: Version control and management
- PLC Ladder Logic: Programming experience with Siemens devices
- Graphical Skills: Technical drawings, pixel art, pen and pencil sketches, and more
- Programming: C#, C++, C, Delphi, Python, HTML, CSS, SQL, JavaScript, PHP Languages

Awards

- 2014: Provincial Colours in Videogaming (Starcraft II and Osu)
- 2011 – 2014: High School Honour's Society Member
- 2013: Silver for the English Olympiad

Personal Interests

- Vintage Cars: Owning and maintaining a vintage car, attending car shows
- Visual Arts: Painting, sketching, and pixel art, among others
- Reading: Both factual and fictional books, mostly biology and fantasy genres respectively
- Videogames: All genres, mostly role-playing, strategy, or adventure games
- Bird Watching: Visiting bird sanctuaries, observing avian behaviour, and raising orphaned chicks
- Fishing: Salt-water coastal fishing, preferably on rocky shores

References

References are available on request.