



Jess Koekemoer

Junior Computer Engineer -
B.Eng Electronic and Computer



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Code B, Own transport

Social Network



LinkedIn Profile Page Link



GitHub Page Link



Instagram Art Page Link



Grepper Profile Link (Blue belt)

Programming



MATLAB and Simulink



C# , C++



LaTeX



SQL



C



JavaScript



Delphi



HTML, CSS



PLC Ladder Logic



Python



PHP

Personal Statement

I am a graduate Computer and Electronics Engineer who always enjoys solving challenges creatively.

I have experience in several programming languages, embedded programming, and building electronic circuits.

I have utilized my programming skills in my final year project, regarding geographical analysis, and to perform data analysis, handle databases, make timing operations, utilise sensor data, compose high-quality documentation, and create small games.

I am equally comfortable with teamwork and tackling responsibilities on my own. I always aim to improve, and I am not limited to my strengths.

Working Experience

03/20 – Present **Junior Software Engineer** Springpoint Finance
Responsible for assisting with full-stack development of the company's data-driven web app, data analysis and reports, and various C# apps.

03/19 – 06/19 **Lecturer's Assistant** North West University
Responsible for helping and assessing students participating in the algorithms and optimisation module.

06/18 – 08/18 **Intern** NWU Solar Car
Participant in multidisciplinary team, made a detailed marketing plan and budget, created team branding, and improved personal presentation and leadership skills.

06/17 – 08/17 **Intern** NWU Solar Car
Participant in solar car manufacture, including carbon fibre bodywork, control panels, and supervising the robotic arm.

04/13 – 05/13 , 04/14 – 05/14 **Volunteer** RSPCA Klerksdorp
Kept rescued animals clean, fed, and socialised.

Education

2015 – 2019 **B. Eng. (Hons) Electronic and Computer Engineering** North West University

2014 **National 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 Advanced Course (TIA-MICRO2)




2017 Cisco CCNA Routing and Switching

2016 Siemens S71200 Micro Course (TIA-MICRO1)

2015 Certified SolidWorks Associate (CSWA)

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Languages

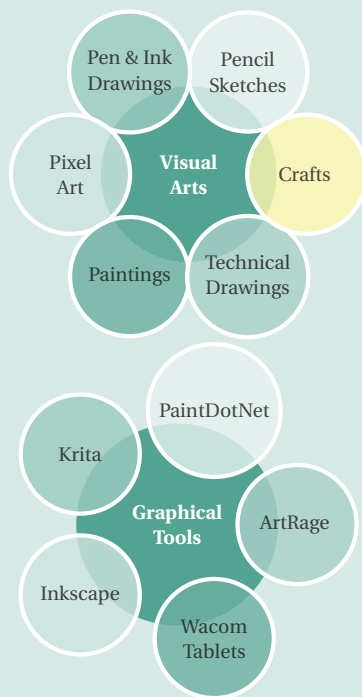
 English	● ● ● ● ●
 Afrikaans	● ● ● ● ●
 Portuguese	● ● ● ● ●

Final Year Project

My final year project involved the creation of a high-performance library for geographical analysis.

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

Graphical Skills



Other Files

-  Dragon Tower Defence Game
-  Final Year Project Report
-  Visual Art Portfolio

Technical Skills

Programming C#, C++, C, HTML, CSS, SQL, JavaScript, Delphi, Python, PHP

MATLAB & Simulink Data analysis, neural networks, GUIs, telecommunication simulations, geographical data analysis, and more

LaTeX (This document included)

LTSpice & Multisim Circuit simulation and custom components

Networks Cisco Packet Tracer, Wireshark, hardware, cmd

Fritzing Circuit schematics and PCB design

Version Control Git, Github, Bitbucket, and logs

PLCs Programming experience with Siemens devices

SolidWorks Mechanical parts, assemblies, and electrical routing

MS Office Power BI, Excel, Word, PowerPoint, Access, Visio, Project

Awards

2014 Provincial Colours in Videogaming (Starcraft II and Osu)

2011 – 2014 High School Honours Society Member

2013 Silver for the English Olympiad

Personal Interests

Visual Arts Painting, sketching, and pixel art, among others

Bird Watching Visiting bird sanctuaries and raising orphaned chicks

Videogames All genres, mostly role-playing, strategy, or adventure games

Vintage Cars Owning and maintaining a Datsun, attending car shows

Reading Both factual and fictional books, mostly biology and fantasy genres respectively

References

References are available on request.