



Jess Koekemoer

Junior Computer Engineer -
B.Eng Electronic and Computer



jesskoekemoer@gmail.com



Code B, Own transport

Social Network



LinkedIn Profile Page Link



Grepper Profile Link (Purple belt)



GitHub Page Link



Instagram Art Page Link

Programming



MATLAB and Simulink



Python



C# , C++



LaTeX



SQL



C



JavaScript



Delphi



HTML, CSS



PLC Ladder Logic



PHP

Personal Statement

I am a junior Electronic and Computer Engineer who always enjoys solving challenges creatively.

I have experience in several programming languages, embedded programming, electronic circuitry, and the engineering approach to problem-solving.

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

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.

Work Experience

03/20 –
Present

Junior Software Engineer

Springpoint Finance

Responsible for assisting with full-stack development of the company's data-driven web app, various C# and python apps, data analysis and automated reports.

03/19 –
06/19

Lecturer's Assistant

North West University

Responsible for helping and assessing students participating in the semester-long 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)

Jess Koekemoer

Languages

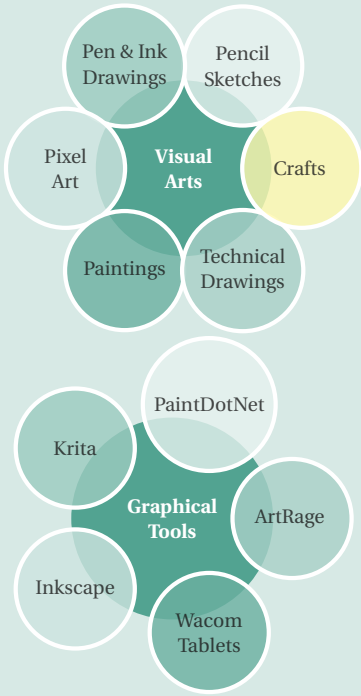
English	● ● ● ● ●
Afrikaans	● ● ● ● ●
Portuguese	● ● ● ● ●

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
- Automatic Python Report Script
- Final Year Project Report
- Power BI Data Report
- Visual Art Portfolio

Technical Skills

Coding	Python, C#, C++, C, HTML, CSS, SQL, JavaScript, Delphi, PHP
Data Analysis	Jupyter + LaTeX generated reports, Power BI, Matlab, SQL
MATLAB & Simulink	Data analysis, neural networks, GUIs, telecommunication simulations, geographical data analysis, and more
LaTeX	Automated reports and others (this document included)
LTSpice & Multisim	Circuit simulation and custom components
Networks	Cisco Packet Tracer, Wireshark, hardware, cmd, VPNs
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, Visio, PowerPoint, Access, Word, 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