# Kevin Nel

### Electronic Engineer

As an electronic engineering student, I'm deeply engaged in technology, and constantly seeking challenges. My learning-driven days are balanced by playing guitar, building mechanical keyboards, and exploring Linux & new programming languages. My approach to problem-solving is to find the most straightforward and easy-tounderstand solution. As Albert Einstein said: "If you can't explain it simply, you don't understand it well enough."





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### **EDUCATION**

### Beng Electronic Engineering

#### University of Pretoria

Expected Graduation: 12/2023

Relevant Courses

- Final Year Project: Real time digital emulation of a vacuum tube guitar amplifier on an embedded platform.
- Digital Systems & Logic, Microprocessors, and Computer Architecture.
- Stochastic Communication Systems.
- Calculus 1, 2, & 3, Differential Equations, and Numerical Methods.
- Digital Signal Processing in C with STM32 Platform.
- Analogue Electronics and Design.

### **SKILLS**



### **WORK EXPERIENCE**

#### Internship

#### IoT.nxt

01/2022 - 02/2022

IoT.nxt build IoT solutions that scale elegantly and solve real-world problems.

- Creation and updating of documentation for in-development and existing electronics products.
- Porting of a new micro-controller to RTOS software platform.
- Gained experience in the functioning of an Agile project management environment.

### **High School Mathematics Tutoring** Resolute Academy

Resolute Academy is committed to helping young students develop the skills and confidence they need to succeed in the digital age.

#### Achievements/Tasks

- Tutoring high school mathematics (grade 8 to grade 12) in a small classroom format (up to 15 students).
- Responsible for providing students with individualized assistance to aid them in their understanding of new concepts.
- Conducting presentations to explain concepts encompassing geometry, algebra, trigonometry, and functions to the entire class.

### Internship

#### Willcom

12/2018

Willcom provides innovative network solutions for telecommunications.

#### Achievements/Tasks

• My 2 weeks internship was very informative into the inner-workings of telecommunications and network infrastructure on a large scale.

# SOFT SKILLS

Able to accept feedback, collaborate in team environments, communicate effectively, and think critically. Flexible, dependable and eager to learn.

### PERSONAL PROJECTS

#### FilterForge

• FilterForge is a command line component value calculator for scaling and offset amplifier circuits and op amp low pass filters, using Texas Instruments application notes, written in

#### ProKey 40+

ProKey 40+ is a tiny 40% ortho-linear mechanical keyboard PCB designed in KiCAD to use the Raspberry Pi Pico micro-

## **SCHOOLING**

#### National Senior Certificate (Matric) (2016)

Sutherland High school: Choice Subjects - Mathematics 80%, Physical Sciences 83%. Information Technology 89%

### **ACHIEVEMENTS**

### Honours in Leadership (2016)

Holistic youth development initiative entailing a series of programs and activities aimed at developing leadership ability and personal growth.

### Honours in Academics (2016)

above 80% average for all 4 years leading up to matric

### Prefect on the Student Executive Council (2016)

Facilitated outreach programs to underprivileged communities, as well as performed other administrative prefect duties and events facilitation

# **INTERESTS**

