

# WILLEM CORNELIS ROSSOUW

## Final Year E&E Engineering Student

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An enthusiastic student engineer passionate about microcontrollers and all things Internet of Things

## WORDS TO LIVE BY

*"When you want to know how things really work, study them when they're coming apart."*

*– William Gibson, Zero History*

## PROJECTS

### ESP8266 PWM and WS2812B integrated control

#### Personal project

Integrated 25kHz PWM fan control and selection with ws2812b lighting and effects with the ESP8266 microcontroller. Completed project has integration with Home Assistant and local website control.

### Java and C Emulation of Space Invaders

#### Course content

As part of a CS module, an emulation of the original space invaders was coded in Java, and then ported for C in another module, to run on an ARM microcontroller.

### Development of an air-quality solution for taxis and taxi ranks

#### Final Year Thesis

Development of standalone sensor modules and sensor network with local and off-site data storage.

## ACHIEVEMENTS



#### Golden Key Society

Membership Acquired in 2020



#### Proxime Accessit in high school

Achieved an average of 86.2% in the NSC Examinations.

## STRENGTHS

Hard-working

Eye for detail

Embedded Systems

C/C++

HTML

Java

## LANGUAGES

English



Afrikaans



## EDUCATION

### High School

#### Huguenot High School

2014 – 2018

Wellington

Academic Honorary colours

First team Hockey

### BEng E&E

#### Stellenbosch University

2019 – Current

## INTERESTS

</> Microcontroller System Design

Integration

Automation

## REFEREES

### Prof. MJ Booysen (Thinus)

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