Luan Bierman
BEng: Electronic Engineering Student

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Abstract

I am an Electronic Engineering student interested in pursuing employment and postgraduate research in Digital Signal Processing, Machine Learning, Embedded Development and Communications.

I am passionate about problem solving using the application of principles relating to information theory and signal processing as well as the application of engineering principles in the fields of Linguistics and general Anthropology.

Employment History

2023 – · · · ·   **Tutor: Digital Systems (ERS220),** University of Pretoria.

Education

2021 – · · · ·   **BEng. Electronic Engineering (Current), University of Pretoria**
Projected Graduation: 2024

2016 – 2020   **National Senior Certificate (7 Distinctions), Midstream College**

Skills

Languages   English - High Proficiency, Afrikaans - High Proficiency, Dutch - Medium Proficiency, German - Limited Proficiency

Coding   RISC Assembly, C, C++, Python, LaTeX, …

Software   2D/3D CAD: *SolidWorks, Fusion 360, AutoCad*, PCB CAD: *Altium, KiCAD, Eagle*, CEM: *Altair FEKO*, Office Suites: *Microsoft Office, LibreOffice*

Misc.   Embedded Development, Academic Writing, Hobbyist manufacturing, 3D-Printing, LaTeX typesetting.

Miscellaneous Experience

Awards and Achievements

2023   **Top 15: EECE Robot Race**, University of Pretoria EECE robot race (EMK310).

General Interests

Engineering

- Communications Intelligence
- Digital Signal Processing
- Embedded System Development
- Machine Learning

General Interests (continued)

Miscellaneous

- Comparative and Historical Linguistics
- Choral Music and Singing

References

Available on Request