

Luan Bierman

BEng: Electronic Engineering Student

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in Luan Bierman

🌐 <http://vitae.bierman.dev/>



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
- Dec. 2023 – Jan. 2024 📌 **Student Worker: Hardware Division**, Rapid Mobile

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

General Interests (continued)

 Machine Learning

Miscellaneous

 Comparative and Historical Linguistics

 Choral Music and Singing

References

Available on Request