JEAN-PAUL **MALAN**

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PROFESSIONAL SUMMARY

Dynamic Electrical and Electronics Engineer with a proven track record at Hatch, specializing in design implementation and cross-disciplinary collaboration to drive project success. Known for developing innovative, efficient solutions and streamlining workflows through automation. Strong analytical and problem-solving skills, with a passion for coding and machine learning cultivated through academic training and personal projects. Committed to continuous learning and leveraging technology to enhance engineering outcomes.

EXPERIENCE

Junior Electrical Engineer | Hatch

FEB 2024 – Present

- Evaluated vendor offerings for alignment with project requirements and provided informed recommendations.
- Collaborated cross-functionally with multidisciplinary engineering teams to define and refine standards, testing protocols, assembly processes, and diagnostics.
- Engaged directly with clients to gather requirements and translate them into functional design features.
- Identified and mitigated potential safety hazards in system designs.
- Produced comprehensive documentation, including requirements specifications, verification plans, and user guides.
- Coordinated with suppliers to source critical components and equipment for timely project execution.
- Designed and implemented electrical systems and circuits across diverse projects.
- Developed custom Python tools to automate the generation of electrical drawings based on load data, significantly reducing turnaround time and enhancing consistency.
- Continuously explore and implement coding solutions to accelerate deliverables and improve workflow efficiency.
- Passionate about software development and machine learning, with a strong drive to integrate intelligent automation into engineering processes.

EDUCATION

Beng Electrical and Electronic Engineering | University of Johannesburg

2020 – 2023

- Achieved 41 distinctions across 54 modules over four years, reflecting strong academic performance and dedication.
- Cultivated a disciplined work ethic and a passion for continuous learning.
- Strengthened complex problem-solving skills through intensive training and practical application.
- Adept at quickly understanding problems, learning new concepts efficiently, and delivering effective solutions under pressure.

SKILLS

- Design implementation
- Data analysis
- Supervised learning
- Power systems
- Research and analysis
- Corrective action planning
- Software development
- Scikit-learn library
- Problem-solving
- 2D and 3D modeling
- Software programming (Python, C, C#, Java, HTML)
- Model evaluation
- Algorithm development
- Network Analysis
- Microsoft Suite
- Time management
- Electrical/Electronic Drawing interpretation