

TINASHE G. GWATIRINGA

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An enthusiastic Mechatronic Engineering graduate from the University of Cape Town. The team-based structure of my research project speaks volumes to my ability to work well in a team. Also a hands-on person with the ability to quickly grasp and apply new concepts and systems.

EDUCATION

2016-Present: University of Cape Town (UCT) – MSc Electrical Engineering

- Research topic: Sea State Estimation using the Wave Glider Platform.
- Supervisor: Professor E. Boje (UCT).

2012-2015: University of Cape Town (UCT) – BSc Mechatronic Engineering

- Graduated December 2015 with Honours.

2011-2012: University of Cape Town (UCT) – BSc Construction Management

- Completed first year and transferred to BSc. Mechatronics.

2009-2010: St John's College, Harare – International Baccalaureate (IB) Diploma

- 3 of 6 subjects taken at an advanced level including Mathematics, Physics and Chemistry.

2007-2008: St John's College, Harare – Cambridge IGCSE (O-Levels)

- Obtained the highest results in a class of 120, with an A* aggregate in 7 of 8 subjects.

KEY STRENGTHS & SKILLS

- **Leadership:** Vice Chairman of the UCT Institute of Electrical and Electronic Engineers (IEEE) student chapter where responsibilities include planning of student events and recruitment of new members.
- **Communication:** As a teaching assistant for various courses, developed skills in clear communication to both students and tutors, ensuring efficient course management.
- **Time Management and Planning:** Skills improved through having teaching responsibilities concurrently with a full postgraduate schedule.
- **IT:** Proficient Linux and Windows user; competent in C, C++, Python, Matlab, Latex, Microsoft Office, as well as simulation software LabVIEW and Simulink.
- **Languages:** Fluent in English and French.

ACHIEVEMENTS AND LEADERSHIP POSITIONS

- **2017:** Awarded the John Davidson Scholarship award.
- **2013-2014:** Peer Mentor, providing support and advice for First Year Engineering students.
- **2012:** Invited to be a member of the International Golden Key Honour Society.
- **2011-2012:** Placed on Dean's Merit List (for students with GPA above 70%).
- **2010:** Appointed Music Leader at St John's College.
- **2008:** Academic Colours Award for best Cambridge IGCSE (O-level) results.

- **2007:** One of six pupils selected to represent Zimbabwe at the International Junior Science Olympiad (IJSO) held in Taiwan.

WORK EXPERIENCE

Feb 2017 – Present: Teaching Assistant for Embedded Systems

- Responsible for a team of 12 tutors for a large undergraduate course split into two modules with two teaching assistants.
- Improved teamwork skills through co-management of the tutor group, by creating a spreadsheet tool for time logging, reporting and dynamic assignment of tutors for the different modules.

Jul 2016 – Jan 2017: Tutor for Computer Integrated Manufacture and Robotics

- Improved my robotics knowledge working as a tutor.
- Duties included conducting robotics practicals mostly done in LabVIEW.

Jun 2016 – Dec 2016: Private Tutor for Club Electron

- An initiative that fosters a passion for science and creative thinking in young children.
- Gained valuable inter-personal skills whilst helping the children and other instructors engage with the content.

Feb 2016 – Jun 2016: Teaching Assistant for Signals and Systems

- Gained administrative experience as a teaching assistant, duties for which included setting, conducting and marking tutorials, managing tutors and test marking.

Jun 2014 – Jul 2014: Student Intern at Radar Remote Sensing Group (RRSG)

- Worked in a close team of 5, giving valuable teamwork experience.
- Developed organisation skills whilst working on a thermal design and enclosure project that required sensitive equipment to be used in adverse conditions.

Nov 2013 – Jan 2014: British American Tobacco (BAT)

- Worked as an Engineer in Training where exposure at an industrial level gave a deeper understanding of PLC programming and maintenance, electrical diagnosis and troubleshooting as well as motor maintenance and repairs.

TECHNICAL TRAINING & CONFERENCES

- **2016:** PRASA-RobMech Robotics Conference held in Stellenbosch.
- **2016:** Optimal Estimation for Control Engineers Course.
- **2012:** Cape Peninsula University of Technology (CPUT) Mechanical Engineering Practical Training workshop.

SOCIAL OUTREACH & OTHER INTERESTS

- Regular tutoring volunteer for the Robogals Society, which encourages young girls to pursue a career in the engineering field by teaching them basic electronics.
- Engaged with the underprivileged children of Hupenyu Hutsva where I repaired their broken marimbas and gave the children some basic music lessons.
- A member of the Mechatronics Research Group social squash club.
- Enjoy playing tennis; member of the social tennis club at UCT.
- Played a leading role in the St John's Marimba Band, and continue to play socially.

REFEREES

- **Ms. Robyn A. Verrinder:** Digital Electronics Lecturer
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- **Professor Edward Boje:** Head of Department
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