

# TINASHE GWATIRINGA

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## --- 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) | Co-supervisor: Robyn A. Verrinder (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 and Economics**

- Completed 1<sup>st</sup> year and transferred to BSc Mechatronic Engineering.

### 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.
- Overall result of 31/45 points, finished top 5 in a class of 40.

### 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.

## --- TECHNICAL TRAINING & CONFERENCES ---

- 2016: Attended the 2016 PRASA-RobMech Conference held in Stellenbosch.
- 2012: Cape Peninsula University of Technology (CPUT) Mechanical Engineering Practical Training workshop

## --- AWARDS & ACHIEVEMENTS ---

- 2012: Invited to be a member of the International Golden Key Honour Society (top 15% of students).
- 2011-2012: UCT Engineering Faculty Dean's Merit List (GPA above 70%).
- 2010: Appointed Music Leader at St John's College.
- 2008: Academic Colours Award for outstanding Cambridge IGCSE (O-level) results.
- 2007: One of six pupils selected to represent Zimbabwe at the International Junior Science Olympiad (IJSO) held in Taiwan.

### --- COMMUNITY SERVICE ---

- Regular volunteer for the Robogals Society (encouraging young girls to pursue a career in the engineering field by teaching them basic electronics).
- Student mentor for first year students in Electrical Engineering at UCT. In this role, I took on 4 students each year and helped them acclimatise to the unfamiliar university environment.
- Whilst at St John's College, took part in various community projects, including building classrooms for an underprivileged nursery school and reading with the elderly at Nazareth House Harare.
- Engaged with the underprivileged children of Hupenyu Hutsva where I repaired their broken marimbas and gave the children some basic music lessons.

### --- WORK EXPERIENCE ---

#### July 2016 – January 2017: **Tutor for Computer Integrated Manufacture Course (MEC3035S)**

- Improved my robotics knowledge working as a tutor, duties for which included conducting robotics practicals mostly done in LabVIEW, and marking of assignments.

#### February 2016 – June 2016: **Teaching Assistant for Signals and Systems Course (EEE2035F)**

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

#### June 2014 – July 2014: **Student Intern at Radar Remote Sensing Group (RRSG)**

- Developed both teamwork and organisation skills whilst working on a thermal design and enclosure project that required sensitive equipment to be used in adverse conditions.

#### November 2013 – January 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.

### --- 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.
- **IT:** Proficient computer user; competent in C, C++, Python as well as simulation software LabVIEW and Simulink.
- **Languages:** Fluent in English and Shona and basic French.

### --- HOBBIES & OTHER INTERESTS ---

- 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 ---

- Robyn A. Verrinder: Digital Electronics Lecturer  
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