

A well-focused researcher and developer who is laying the groundwork for a career in academia; possessive of skills typical in the interdisciplinary fields of biostatistics, mechatronics, and biomedical engineering; and a health enthusiast.

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| SKILLS & ABILITIES | <ul style="list-style-type: none"> Brain imaging Data analytics Modeling and animation Image processing Academic research Creative writing Machine learning Conceptualisation Project and time management Excellent communication Motivation and Studiousness Humanitarianism |
| PROFICIENCY | <ul style="list-style-type: none"> C/C++ MATLAB & Simulink R Python & V-python LabVIEW Fritzing LaTeX SolidWorks SPICE Batch script Maya Anime Studio (Moho) MS Office LibreOffice |
| EXPERIENCE | <p>STUDENT LAB ADMIN, INFORMATION COMMUNICATIONS & TECHNOLOGY SYSTEM—UCT 01/2018—01/2020 (2-year 1 month) Providing information technology services to students in the faculty of health sciences.</p> <p>POSTGRADUATE STUDENT ADVISOR, HEALTH SCIENCES EDUCATION—UCT 01/2018—02/2019 (1-year 1 month) Providing academic and mental health support to first and second-year medical sciences students through themed workshops and consultations.</p> <p>STUDENT TECHNICAL ASSISTANT, MACHINES LAB—UCT 02/2018—07/2018 (5 months) Solar panel fitting, rewiring, and maintenance. Circuit boards soldering. Replacement of circuit breakers and main switches.</p> <p>RESEARCH ASSISTANT, LEAP PROJECT, MECHATRONICS LAB—UCT 01/2017—04/2017 (4 months) Implemented a dragline for a spider-like robot for aerial righting. Areas of research: Mechatronics, control, instrumentation, and biological mimicry.</p> |
| EDUCATION | <p>UNIVERSITY OF CAPE TOWN, WESTERN CAPE, SA— MSc (Med) Biomedical Engineering degree: expected completion—12/2019 <u>Dissertation title</u> <i>Multimodal neuroimaging signatures of cART-treated paediatric HIV: Distinguishing perinatally infected 7-year-old children from uninfected controls</i></p> <p>UNIVERSITY OF CAPE TOWN, WESTERN CAPE, SA— BSc (Eng) Mechatronics engineering degree: conferred—12/2017 <u>Dissertation title</u> <i>Optimisation algorithm for chemical shift (2D CSI) and single voxel (SVS) spectra acquisition techniques of magnetic resonance spectroscopy imaging.</i></p> <p>KWANDEBELE SCIENCE COMBINED SCHOOL, MPUMALANGA, SA—NSC National senior certification. Major subjects: physics, chemistry, life sciences, and mathematics.</p> |
| COMMUNICATION | <p>TUTORING 2013—2014: Tutored first-year mathematics, computer science, and electrical and electronic engineering.</p> <p>MENTORING 2014—2015: Became a trusted advisor to four mentees and led them to a successful academic year.</p> <p>COMMUNITY SERVICE 2014: Led a team that painted a whole classroom block of Thandokhulu High School in Mowbray, Cape Town.</p> |

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| CONFERENCE PROCEEDINGS | Organisation of Human Brain Mapping (OHBM), Rome, Italy— June 2019 - Poster presentation |
| LEADERSHIP | EXECUTIVE COMMITTEE MEMBER, UNIVERSITY HOUSE RESIDENCE—UCT Portfolios held in 2013/2014: <ul style="list-style-type: none">• General outreach• Green campus initiative (GCI)• Maintenance and security |
| HOBBIES & EXTRAMURAL ACTIVITIES | <ul style="list-style-type: none">• Mountain biking• Semantics & epistemology• Writing mythology• Whale watching• Percussive acoustic guitar• Playing soccer and cricket• 2D animation• Arcade gaming |