

Right before civilization education has always been regarded as gold, knowledge is power and learning is continuous. The world has greatly developed today because man continued in learning and its application solved his problems.

My name is Kane Thomas and I obtained a B.Sc. in Mechanical Engineering from the University of Pretoria, the foremost academic institution in the country, graduating with a CGPA of 5.6/7.0 (Second Class Upper). My B.Sc. thesis was titled “Computational Modelling of Electromagnetic Response of Aluminium-Copper Alloy AA2519-T6 under Dynamic Impact Loading” using the Abaqus numerical software. During my undergraduate years, I developed an avid interest in CAD, analysis, and simulation. In light of this, I self-taught CAD programs such as AutoDesk, AutoCAD, Simulia Solidworks, Abaqus, and developed a fair level of skill using Python 3. My design portfolio is attached as a supporting document in my application. In line with my undergraduate industrial experience, I took up postgraduate job positions and gained extensive practical experience in the construction industry (preventive, reactive, and corrective repair of heavy earth-moving construction machinery) and telecommunications industry (field engineer and operations center specialist for power and cooling equipment at telecoms installations).

In recent decades, mankind has set its gaze to and taken giant steps towards the stars. It is my heartfelt desire to be a part of that journey and to contribute my part to the advancement of the species by being on the cutting-edge of mechanical engineering related research and design. Particularly in the fields of space travel technology, robotics, and autonomous systems, and nanotechnology, these developing fields having captured my interest and imagination.

Also, I have been greatly encouraged and challenged in my desire to continue my studies abroad by fellow scholars in the field who are currently doing the same. I also want my success and advancement to serve as a challenge and encouragement to other young engineers and professionals in my country, a country mired in numerous woes, that they need not be hampered by their circumstances and/or left behind as the world takes giant strides forward.

For these reasons, I have decided to further my education and pursue an M.Sc. in Robotics, Control & Smart Systems at the prestigious Australian National University. This will be a great step towards the achievement of my personal, life, and career goals. I have made a careful study of the school and reached out to faculty such as Professor Mark Daba and Professor Sadiq, whom I would be honored to work with as their work on robotics, mechatronics, and nanotechnology are inline with my personal and professional interest in space travel engineering and technology.

While I previously applied for and gained admission into M.Eng. RCSS for the Fall 2021 session, I was unable to take advantage of the opportunity due to my inability to qualify for a fellowship position. I hope that my current application will meet with greater success as I am convinced that the Australian National University study environment will be a novel experience that will certainly broaden my horizons, and make me an asset to the global community and humanity at large.