

MECHANICAL ENGINEER · COMPUTER ENTHUSIAST

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"I want to put a ding in the universe." - Steve Jobs

Education

University of Pretoria, South Africa

B.Eng.(Hons) in Mechanical Engineering

Jan. 2013 - Dec. 2017

Jan. 2009 - Dec. 2012

- Passed with distinction with a cumulative average of 75%
- · Received Academic Honorary Colours from the Student Representative Council

Penryn College Mbombela, South Africa

GRADE 12

- Independent Examination Board Matric Certificate with an average of 88.3%
- Awarded DUX Scholar at Penryn College for 2012

Skills

Personal Leadership, Problem Solving, Vision

CAD Siemens NX, Siemens Solid Edge, Dassault Solid Works

Simulation Siemens Simcenter Pre/Post, Siemens Simcenter Motion, Tecnomatix Plant Simulation

Programming Python, Matlab, LaTeX

PLM Teamcenter
Languages English, Afrikaans

Miscellaneous Microsoft Office Suite, Smartsheet, Groupwise

Experience

Council for Scientific and Industrial Research (CSIR)

Pretoria, S.Africa

MECHANICAL ENGINEER

Feb. 2018 - PRESENT

- Implimentation of Industry 4.0 tools and software systems with a focus on Product Lifecycle Management through the use of Teamcenter.
- Mechanical Design and Simulation using Siemens NX and Simcenter 3D.
- Configuration of Virtual Reality Systems in NX.
- $\bullet \ \ {\it Optimization of Factory Floor through simulations in Technomatix Plant Simulation}.$
- Workshop experience with a laser cutter and water jet.
- Data analytics and GUI Design using Python.

Honours Research, Turbine Design (Dr. Glen Snedden)

Pretoria, S.Africa Jan. 2017 - Dec. 2017

RESEARCHER

• Researched the effect of Surface Roughness on the aerodynamic performance of turbine blades

• Assisted in developing a spreadsheet which designs the turbine blade profile and layout from the required performance.

Undergraduate Research, Vibration Analysis of Turbine Blades(Mr. Francesca Pietra)

Pretoria, S.Africa Jan. 2016 - Dec. 2016

RESEARCHER

· Researched the whether modal analysis is a feasible method in determining crack size and location within turbine blades.

• Developed a Matlab program to analyse the vibration in a turbine blade when tapped with a hammer in order to predict modal frequencies.

Vacation Work, Council for Scientific and Industrial Research (CSIR)

Pretoria, S.Africa

STUDENT

7 Weeks: 2015 - 2017

- · Developed an optimization program and graphical user interface in Python for the efficiency optimization of Jet Engines
- Designed a mechanism in which children with walking disabilities can be assisted by their parents.
- Converted a Compressor Application written in Fortran to Python

Vacation Work, EWC Consulting Engineers

Mbombela, S.Africa 10 Weeks: 2014 - 2016

STUDENT

- Developed a Trommel Screen dimension calculator in python.
- · Assisted in the structural design of a factory floor
- · Assisted in the Maintenance of the Machinery in Malelane Sugar Mill

August 4, 2018 Dillon M. Parfitt · Curriculum Vitae

Extracurricular Activity

Academic Commitee at Mopanie Men's Residence

Pretoria, S.Africa Jan. 2014 - Dec. 2014

• Gained experience in leading a team of people with the academic activities in the residence.

- Obtained skills in planning and running events.
- · Organized tutor sessions in which I assisted in tutoring

Music Pretoria, S.Africa

LEADER · SINGER · GUITARIST

CHAIRMAN

Jan. 2010 - PRESENT

- Lead one of the music bands at Capital City Church International.
- · Gained experience organizing sets of songs and leading the band in playing the songs effectively.
- Obtained experience singing, playing guitar and speaking in front of large groups of people.
- Gained management skills through the scheduling of people and arranging rehearsels.

Church Youth Pretoria, S.Africa

LEADER

Jan. 2010 - PRESENT

- Gained experience working with high school youth.
- Assisted in the planning and leading of Events, Camps and Outreaches.

Community Service S.Africa

Member Jan. 2010 - PRESENT

- · Assisted in the construction, repair and painting of various rooms and classrooms at Hands at Work Orphanage.
- Repaired various buildings and facilities at the Bethlehem Township outside of Pretoria
- · Took part in numerous church outreaches to poverty-stricken areas in South Africa, Swaziland and Mozambique.
- Repaired and cleaned various facilities at Second Chance Wildlife Rehabilitation Centre in Mbombela.
- · Assisted in the repair of a childrens' playground in Pretoria.

Honors & Awards

INTERNATIONAL

2014 **Membership**, Golden Key International Honour Society *Pretoria, S.Africa*

DOMESTIC

2017	Honours with Distinction, University of Pretoria	S.Africa
2017	Top Performing Bursary Student, Council for Scientific and Industrial Research	Pretoria, S.Africa
2013	2nd Place in Academic Acheivement, Mopanie Men's Residence	Pretoria, S.Africa
2013	6th Highest Academic Acheiver, First Year Mechanical Engineers, University of Pretoria	Pretoria, S.Africa
2012	DUX Scholar, Penryn College	Mbombela, S.Africa
2012	8 Distinctions, Grade 12	Mbombela, S.Africa
2011	Finalist, St. Mary's Battle of the Bands	JNB, S.Africa

AUGUST 4, 2018 DILLON M. PARFITT · CURRICULUM VITAE