OTTO CARL SCHEFFLER

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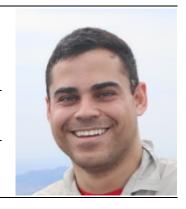
> Western Cape, South Africa

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PERSONAL PROFILE

I was born and raised in Pretoria. I attended Pretoria Boys High School for my entire high school career from 2006-2010 and received five distinctions at the end of my matric year. I conducted my tertiary education at the University of Stellenbosch in order to achieve my undergraduate Mechanical Engineering degree (2011-2015). I am currently completing my Master's degree in Mechanical Engineering at Stellenbosch University.

Throughout my schooling career, I was a committed and passionate sportsman (with Hockey being my favourite) while being involved in various extramural activities I also enjoyed athletics and playing cricket. I always strived to be a perfect gentleman and a team player.

I am an intelligent young man with a wealth of general knowledge and have always been a diligent student with an impeccable work ethic. I have a mature and responsible attitude towards the tasks I am presented with. I execute my responsibilities with enthusiasm, dedication and punctuality while always striving to help and accommodate others. At no point have I allowed my honesty and integrity to be brought into question throughout my entire career.

I consider myself as an honest, reliable and self-motivated individual who is resourceful and able to work on my own initiative. I always strive to be conscientious, positive and confident and execute tasks to a very high standard. I endeavour to combine the above traits with friendliness and good humour no matter the circumstances.

SKILLS & ABILITIES

Key Skills

- Discrete Element Modelling (DEM)
- R&D, Design, Simulation and Manufacturing
- **Data Acquisition**
- Proven Research Skills

Technical Skills:

- Discrete Element Modelling (DEM) [PFC^{3D}]
- Computer Aided Design (CAD) [Autodesk Inventor, SolidWorks]
- Computational Fluid Dynamics (CFD) [ANSYS Fluent]
- Finite Element Analysis (FEM) [Siemens NX, MSC SimXpert]

- Test and Measurement [HBM, CATMAN]
- Computer Programming [C, MatLab]
- Extensive experience with MS office [Word, Excel, Power Point]
- Completed a postgraduate course in Air-Conditioning and Refrigeration (844)

Membership:

• ECSA – Candidate Engineer (Reg. no. 201651415)

WORK EXPERIENCE

Assistant, Mechanical Engineer, <u>Dec 2012 – Jan 2013</u> University of Pretoria, Pretoria, South Africa

 Assisted a PhD student in the design, development and manufacturing for components of an experimental parabolic solar receiver

Vacation Trainee, Mechanical Engineer, <u>Dec 2013 – Jan 2014</u> Esteq, Pretoria, Pretoria, South Africa

 Experimental design of components demonstrating the capabilities of MSC Adams and Siemens NX

Tutor (Demi), Master's Student, <u>Feb 2016 – Nov 2017</u> University of Stellenbosch, Stellenbosch, South Africa

- Assisting students during tutorial sessions for undergraduate courses, including Food Factory Machines 414 (BSc) /Thermofluid Dynamics 214 (BEng) & Food Factory Machines 444 (BSc)
- Marking of tutorials & tutorial tests; Keeping class list up to date
- Principle Demi [Feb 2017 Nov 2017]

Part-time Junior Lecturer (PhD Candidate), <u>April 2018 – Date</u> University of Stellenbosch, Stellenbosch, South Africa

- Compiling and marking exam papers; Keeping class lists up to date;
- Presenting lectures/tutorials; General support of the mentor's teaching activities;
- Writing research proposals, articles and reports; Undergraduate supervision;
- Maintaining laboratories

EDUCATION

- Master's Degree in Mechanical Engineering [MEng] (2015 2017)
 University of Stellenbosch, South Africa
- Bachelor's Degree in Mechanical Engineering [BEng] (2011 2015)
 University of Stellenbosch, South Africa
- Workshop in Scientific Writing Skills for Theses & Dissertations [NQF Level 6] (2016)
 University of Stellenbosch, South Africa
- National Senior Certificate [NQF Level 4] (2006-2010)
 Pretoria Boys High School, Pretoria, South Africa

COMMUNICATION

- Excellent interpersonal, written and oral communication skills in English and Afrikaans
- Ability to effectively teach in English and Afrikaans

PERSONAL INTERESTS AND OTHER

ID 9203095108081 Nationality South African

Marital Status Single Drivers Licence Code B

Interests I enjoy nature and the outdoors, playing squash, hiking and travelling

PUBLICATIONS

Journal Articles

Scheffler, O.C., Coetzee, C.J. & Opara, U.L. 2018. A Discrete Element Model (DEM) for Predicting Apple Damage during Handling, *Biosystems Engineering*, <u>Accepted for publication - at date in copy-editing and production.</u>

REFERENCES

Prof Corné Coetzee, Associate Professor, Department of Mechanical and Mechatronic Engineering, Stellenbosch University. Email: ccoetzee@sun.ac.za, Tel: (+27)21 808 4239

Dr Jaap Hoffmann, Senior Lecturer, Department of Mechanical and Mechatronic Engineering, Stellenbosch University. Email: hoffmaj@sun.ac.za, Tel: (+27)21 808 3554

Mr Richard Haines, Senior Lecturer, Department of Mechanical and Mechatronic Engineering, Stellenbosch University. Email: rhaines@sun.ac.za, Tel: (+27)21 808 4308