

# OTTO CARL SCHEFFLER

---

**ADDRESS:**

21 Eikenbosch,  
36 Karee Street,  
Stellenbosch, 7600,  
Western Cape,  
South Africa

---

**EMAIL:**

ocscheffler@gmail.com  
ocscheffler@sun.ac.za

---

**TELEPHONE:**

+27 82 929 5732

---



## 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<sup>3D</sup>]
- 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, Dec 2012 – Jan 2013

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, Dec 2013 – Jan 2014

Esteq, Pretoria, Pretoria, South Africa

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

Tutor (Demi), Master's Student, Feb 2016 – Nov 2017

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), April 2018 – Date

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*, Accepted for publication - at date in copy-editing and production.

## 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