

## CURRICULUM VITAE OF DIRK VAN VUUREN

EVALUATION DATE: 2020/02/19

## 1 BIOGRAPHICAL SKETCH

## 1.1 General Information

<b>Surname</b>	Van Vuuren								
<b>First name</b>	Dirk Johan			<b>ID number</b>	n/a				
<b>Citizenship</b>	South African			<b>Title</b>	Dr.	<b>Female</b>	<input type="checkbox"/>	<b>Male</b>	<input checked="" type="checkbox"/>
<b>Place of birth</b>	Krugersdorp, RSA			<b>Date of birth</b>	1989/12/13				
<b>Population group</b>	<b>African</b>	<input type="checkbox"/>	<b>Coloured</b>	<input type="checkbox"/>	<b>Indian</b>	<input type="checkbox"/>	<b>White</b>	<input checked="" type="checkbox"/>	<b>Other</b> (Please specify)
<b>Department</b>	Mechanical Engineering			<b>Position</b>	Lecturer				
<b>Direct telephone</b>	012 420 5269			<b>Direct telefax</b>	n/a				
<b>E-mail</b>	Dirk.vanvuuren@up.ac.za								
<b>Date of appointment</b>	2020/01/01			<b>Permanent full-time</b>	<input type="checkbox"/>	<b>Temporary full-time</b>	<input checked="" type="checkbox"/>		

## 1.2 Academic Qualifications Obtained

Degree/Diploma	Field of study	Higher education institute	Year	Distinctions
B.Eng	Mechanical engineering	University of Johannesburg	2013	5
M.Eng	Mechanical engineering	University of Johannesburg	2017	Cum Laude
D.Eng	Engineering management	University of Johannesburg	2019	n/a

<b>1.3 Work Experience to Date</b>		
<b>Name of employer</b>	<b>Capacity and/or type of work</b>	<b>Period From mm/yy to mm/yy</b>
University of Johannesburg	Researcher, assistant lecturer and design engineer on solar and eco-marathon vehicles	2014/07/01 to 2016/06/01
Solareff	Design engineer and project manager	2016/03/15 to 2017/03/31
Profound engineering	Design engineer	2017/04/01 to 2018/01/31
University of Johannesburg	Researcher	2018/02/01 to 2019/12/31

## 2 TEACHING ACTIVITIES

<b>2.1 Course Presented</b>		
<b>Course</b>	<b>Level (e.g. second year, Masters)</b>	<b>Self-developed (Yes or No)</b>
Thermal systems (UJ)	4 <sup>th</sup> year assistant lecturer	No
Fluid dynamics (UJ)	3 <sup>rd</sup> year assistant lecturer	No
Science of materials (UJ)	2 <sup>nd</sup> year assistant lecturer	No

## 3 TEACHING OUTPUTS

<b>3.1 Educational publications and products</b>
<p>The following articles have been published as the 1<sup>st</sup> author.</p> <p>[1] D. J. Van Vuuren and R. F. Laubscher, "Surface Friction Behaviour of Anodized Commercially Pure Titanium Screw Assemblies," <i>Procedia CIRP</i>, vol. 45, pp. 251–254, 2016, doi: 10.1016/j.procir.2016.02.332.</p> <p>[2] D. J. van Vuuren, A. Marnewick, and J. H. C. Pretorius, "A Theoretical Pre-Assessment of Solar Photovoltaic Electrical Production for Commercial Retail Centers," in <i>18th IEEE EEEIC International Conference on Environment and Electrical Engineering</i>, 2018, p. 5, doi: 10.1109/EEEIC.2018.8494550.</p> <p>[3] D. J. van Vuuren, A. Marnewick, and J. H. C. Pretorius, "A proposed simulation-based theoretical preconstruction process: The case of solar photovoltaic technology in South African shopping centres," <i>Renew. Sustain. Energy Rev.</i>, vol. 113, no. July, p. 109295, 2019, doi: 10.1016/j.rser.2019.109295.</p>

## 4 OTHER TEACHING CONTRIBUTIONS

### 4.1 Membership of national and international bodies

SAIMechE – South African Institute of Mechanical Engineers (full member)

## 5 RESEARCH ACTIVITIES

### 5.1 Current post-graduate students

Name of student	Degree enrolled for and date of first registration	Project title	Supervisor	Co-supervisor(s)	Year of registration
S. Rana	Masters in engineering management – 2018-01/01	Elements to be analysed when conducting an environmental impact assessment for infrastructure construction	Prof. A Marnewick	Mr. DJ van Vuuren	2 <sup>nd</sup> year

## 6 RESEARCH OUTPUTS

### 6.1 Published in peer-reviewed or refereed journals

- D. J. van Vuuren, A. Marnewick, and J. H. C. Pretorius, "A proposed simulation-based theoretical preconstruction process: The case of solar photovoltaic technology in South African shopping centres," *Renew. Sustain. Energy Rev.*, vol. 113, no. July, p. 109295, 2019, doi: 10.1016/j.rser.2019.109295.

### 6.2 Published full-length conference papers/keynote addresses

- D. J. Van Vuuren and R. F. Laubscher, "Surface Friction Behaviour of Anodized Commercially Pure Titanium Screw Assemblies," *Procedia CIRP*, vol. 45, pp. 251–254, 2016, doi: 10.1016/j.procir.2016.02.332.
- D. J. van Vuuren, A. Marnewick, and J. H. C. Pretorius, "A Theoretical Pre-Assessment of Solar Photovoltaic Electrical Production for Commercial Retail Centers," in *18th IEEE EEEIC International Conference on Environment and Electrical Engineering*, 2018, p. 5, doi: 10.1109/EEEIC.2018.8494550.