One page CV – John Dickens January 2015

Name: John Simon Dickens

Profession: Electronic Engineer

Position: Engineer

Name of Organisation: CSIR, South Africa, Mechatronics and Micro-Manufacturing Group

Date of Birth: 15 June 1986

Years with Organisation: 4

**Contact Details:**

Office Phone: +27 12 842 7067 Mobile: +27 83 460 8523 E-mail: jdickens@csir.co.za

**Education:**

* BEngSc Biomedical Engineering, University of the Witwatersrand, Johanneburg, South Africa
* BSc Eng (Electrical), University of the Witwatersrand, Johanneburg, South Africa
* MSc Eng Electrical, University of the Witwatersrand, Johanneburg, South Africa

**Key Experience:**

4+ Years experience in image processing, hardware and software integration and the research into the application of novel sensor systems for underground mine safety improvement.

**Publications:**

* J. S. Dickens and M. Price, ``The design of an automated 3D-thermal mine scanning tool'', 5th Robotics and Mechatronics Conference of South Africa, Pretoria, South Africa, November 2012.
* M. Price, J. Green and J. Dickens, ``Point-cloud Registration Using 3D Shape Contexts'', 5th Robotics and Mechatronics Conference of South Africa, Pretoria, South Africa, November 2012.
* J. S. Dickens and J. J. Green, ``Segmentation techniques for extracting humans from thermal images'', 4th Robotics and Mechatronics Conference of South Africa, Pretoria, South Africa, November 2011.
* M. Price, J. Green and J. Dickens, ``Creating Thermal Maps of Mines'', 4th Robotics and Mechatronics Conference of South Africa, Pretoria, South Africa, November 2011.
* J. S. Dickens, J. J. Green and M. A. van Wyk,``Pedestrian detection for underground mine vehicles using thermal images'', IEEE Africon, Livingston, Zambia, September 2011.
* J. S. Dickens, J. J. Green and M. A. van Wyk, ``Human Detection for Underground Autonomous Mine Vehicles Using Thermal Imaging'', 26th International Conference of CAD/CAM, Robotics and Factories of the Future, Kuala Lumpur, Malaysia, July 2011.
* J. Green, K. Hlophe, J. Dickens, R Teleka and M. Price, ``Mining Robotics Sensors: Perception Sensors on a Mine Safety Platform'', International Conference on CADCAM, Robotics and Factories of the Future, Kaula Lumpur, July 2011.

**Current Interests / Activities:**

* Robotics; Autonomous Vehicles, Mining Robotics
* Sensor systems, Image processing, Machine vision
* Proximity / pedestrian detection systems