

Bonolo Mathibela

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PROFESSIONAL SUMMARY

- Rhodes Scholar committed to transforming society through advancing robotics and technology
- Passionate about developing algorithms and designs that solve hard problems

EDUCATION

- DPhil (PhD) Engineering Science in Mobile Robotics, University of Oxford** 04/2014
- Thesis: "Situational awareness in autonomous driving: learning to read the road"
 - Technical team member for the development of RobotCar, Oxford's self-driving car
- BSc Mechatronics Engineering (with first class honors), University of Cape Town** 12/2008
- Coursework: Control Systems, Dynamics, Embedded Systems, Electronics, Calculus, Robotics

PROFESSIONAL EXPERIENCE

- Research Scientist, IBM Research, Johannesburg, South Africa** 04/2015 – Present
- Developed algorithms for optimising traffic congestion, supervised interns, presented work
 - Member of IBM's strategic Global Technology Outlook (GTO) Transportation Rethink
 - Completed IBM/GIBS Intermediate Leadership Programme (University of Pretoria)
- Graduate IT Officer, University of Oxford, Oxford, United Kingdom** 10/2012 – 12/2013
- Provided IT help-desk support and training for students and staff
- Volunteer Mechanical Engineer, OM Ships, Cambodia, Thailand, Malaysia** 07/2009 – 09/2009
- Optimised the timing sequence of the ship's main engine, humanitarian work
- Researcher, Council of Scientific and Industrial Research, Pretoria, South Africa** 02/2009 – 06/2009

HONORS

- ROSCon (Robot Operating System Conference) Diversity Scholarship 2016
- IBM Research nominated participant: Grace Hopper Celebration of Women in Computing Conference 2016
- IBM Eminence and Excellence Award (Treasured Wild ducks) 2015
- New College Graduate Scholarship (Oxford University) 2013
- National Research Foundation Free-standing scholarship for study abroad (Oxford University) 2013
- Rhodes Scholarship 2008
- Dean's Merit List (University of Cape town) 2005 – 2008

TECHNOLOGY SUMMARY

Programming: Java, MATLAB, C/C++, JavaScript, HTML, XML

Systems: Unix (Mac OS X), Linux, Windows

RECENT ACTIVITIES

- **Participant**, European Innovation Academy, France 2016
- **Regional Selection Committee Member**, Rhodes Scholarships, South Africa 2015
- **Participant**, Lean Startup Machine Johannesburg (won 2nd place in the competition) 2015
- **Invited Speaker**, Skopje University and Ivanov Leadership School, Macedonia 2011
- **President**, Engineers Without Borders Oxford, United Kingdom 2010 – 2011