Michal Staniaszek

Born 7th December 1990 British national
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Education and Qualifications

August 2013 to June 2015 — **MSc Systems, Control and Robotics**, Robotics and Autonomous Systems track
KTH Royal Institute of Technology, Stockholm, Sweden

September 2009 to June 2013 — **BSc Computer Science with Study Abroad**, First Class Honours
Top of graduating class (final year: 92%, weighted average: 89%)
University of Birmingham, Birmingham, UK

September 2011 to July 2012 — **Japanese Language Programme**, Advanced Level
Japanese Language Proficiency Test level N1 (90%)
Keio University, Tokyo, Japan

Work Experience

July 2015 to January 2016 — **Innovation Team Intern** at Yujin Robot Co., Ltd, Seoul, Republic of Korea
Python and C++ development in ROS for the GoCart delivery robot. Worked on behaviour trees, diagnostics and module interfacing.

July 2013 — **Systems and Software Assistant** at Kaon Ltd, Guildford, UK
Developed a GUI prototype for a portable device in Java, to demonstrate functionality to the customer. Set up and tested filesystems on linux for optimal operation on a large RAID device.

December 2011 to June 2012 — **Waiter** at Gyu-Kaku, Shibaura, Tokyo, Japan
Served food and took orders, working entirely in Japanese with Japanese co-workers and clientele.

July to September 2010 — **Technical Assistant** at Japan Services Rent Ltd, London, UK
Assisted the company director with the development of a website. Used image manipulation tools to create images for the site. Solved hardware and software problems encountered by co-workers.

Academic and Research Activity

January to June 2015 — Master's Thesis — **Feature-Feature matching for Object retrieval in Point Clouds**
Developed a system using PCL and ROS to extract features from point clouds, and find query objects in the resulting feature set. Performed an experimental evaluation to find good descriptors and interest point methods. Supervised by John Folkesson.

July to August 2014 — Participant in **Tohoku University Engineering Summer Programme (TESP)**
Attended lectures on several different areas related to robotics, worked on a short project on obstacle avoidance for a tracked mobile robot.

September 2012 to April 2013 — Bachelor's Thesis — **Time Delay Estimation in Gravitationally Lensed Photon Streams**
Developed a system to estimate characteristic functions of streams with weighted least squares techniques and compare them with probabilistic techniques to estimate the time delay. Supervised by Peter Tiňo.

January to July 2011 — Participant at **Student Autonomous Underwater Competition - Europe (SAUC-E)**
Collaboration between the University of Birmingham and University of Southampton to prepare the Delphin AUV for the competition in July. Converted the control system from Matlab to ROS Python.

October 2010 to July 2013 — Founding member of **Birmingham Autonomous Robotics Club**
Co-founded the club due to interest from computer science faculty and undergraduate students in solving robotics problems and increasing the profile of the field in the school.

Teaching

January 2013 to April 2013	**Robot Programming Demonstrator** at University of Birmingham Answered questions about the implementation of various algorithms and the application of artificial intelligence techniques for use on LEGO NXT robots running LeJOS.
September 2012 to December 2012	**Foundation Year Computer Science Demonstrator** at University of Birmingham Helped foundation year students understand basic programming concepts, and evaluated their performance in assignments.
September 2010 to April 2011	**Software Workshop (Java) Demonstrator** at University of Birmingham One of five second year students selected to demonstrate for the First Year Workshop Java module. Provided advice on assignments, programming concepts, and the Java API.

Bursaries, Scholarships and Awards

July 2013	**Computer Science Prize** Awarded to the highest scoring final year student in the University of Birmingham School of Computer Science
July 2013	**Research Committee Project Prize** Awarded for the best research related dissertation by the University of Birmingham School of Computer Science
January to April 2012	**Japan Student Services Organisation Scholarship** Short-term scholarship to support study in Japan.
July to September 2011	**Nuffield Undergraduate Research Bursary** Bursary to support a summer research project to investigate particle filter localisation for AUVs.

Programming and Software

Basic:	Bash, Matlab, OpenCV, PCL, CMake, Doxygen, Sphinx
Intermediate:	Emacs, Linux, Java, ROS, LaTeX, C
Advanced:	C++, Python, Git

Public repositories at github.com/heuristicus

Languages

English:	Native
Japanese:	Fluent
Polish:	Fluent
Swedish:	Basic
Korean:	Basic

Interests

Cycling, Japanese language and culture, languages, music, photography, reading

Referees

Peter Tiňo	John Folkesson	Daniel Stonier
Professor	Assistant Professor	Chief Algorithms Architect
p.tino@cs.bham.ac.uk	johnf@kth.se	stonier@yujinrobot.com
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