

ALICJA WASIK

Address: Tomice 9 55-065 Jordanow Slaski, POLAND
Mobile Number: +48600352305 E-mail: alwasik@gmail.com

CAREER PROFILE

A PhD student in Robotics, enrolled in the joint doctorate between École Polytechnique Fédérale de Lausanne (EPFL) and the Instituto Superior Tecnico of Lisbon (IST). A MEng graduate in Aerospace Engineering at the University of Sheffield. Fluent speaker of Polish and English, wielding advanced German.

EDUCATION AND QUALIFICATION

PhD in Robotics. Title of the thesis: Institutional Robotics for Socially Aware Multi-Robot Systems

Started
11/2014

Enrolled in the joint doctorate between École Polytechnique Fédérale de Lausanne (EPFL) and the Instituto Superior Tecnico of Lisbon (IST), under joint supervision of Alcherio Martinoli and Pedro U. Lima. The focus of the thesis is on development of distributed framework for multi-robot formations able to navigate in indoor environments populated with humans.

Pre-doctoral Internship at the EPFL

08-10/2014

Involved in a project on "Coordination Behaviours for Formation Control of Holonomic Multi-Robot Systems" being a part of a MONarCH (Multi-Robot Cognitive Systems Operating in Hospitals) European FP7 project

Aerospace Engineering with a Year in North America, University of Sheffield and University of Texas at Austin Achieved 93% overall examination average in Year I, 90% in Year II and GPA of 3.61/4 and

2010 – 2014

Awarded Royal Aeronautical Society University Prize for the best student of the academic year.

Awarded Hatfield Memorial Prize for top results among all Engineering departments, Sir Harold West Prize and Sir Basil Blackwells Award for displaying an academic and personal promise.

The course provides a cross-disciplinary education covering materials and structures, aerodynamics, computer programming, electronic systems and modelling of control systems.

SURE – Undergraduate Research Experience at the University of Sheffield

2012

Aim of the research project carried out with Natural Robotics Lab in the department of ACSE at the University of Sheffield was to control of a system composed of large group of anonymous robots mimicking a natural phenomenon – a Brazil Nut Effect.

Secondary School No. IX in Wroclaw – Polish Matura equivalent to 'A' levels

2008– 2010

Mathematics 95%, Physics 96%, English 93%, Literature 89%

Secondary School No. XIII in Wroclaw, class with professional journalism leading programme

2007– 2008

Acquisition of presentation and communication proficiencies. Achievements of skills to meet short-term deadlines and effectively coordinate events and meetings.

RELEVANT EMPLOYMENT

Internship in the Institute of Simulation and Software Technology at the German Aerospace Center DLR. The project involved embedded systems programming for the onboard computer of MAIUS sounding rocket.

06-08/2013

Completed tasks: preparation of the real-time spacecraft computer with project-specific development tools, integration and testing of the hardware compatibility, programming of the API interface for the cameras.

Internship at The Advanced Manufacturing Centre (AMRC) with Boeing. Working on an innovative SAMULET One Way Build project, involving robotics, PLC programming and cellular manufacturing.

06-08/2012

The project requested by the BAE Systems focused on automatic assembly for aerospace system. The summer placement resulted in a report summarizing key ideas for improvement and rationalisation of the PLC logic and cell interactions between industrial servo robots, HMI and visual systems.

Engineer in a Quality Control Department of the EBCC Sp. z.o.o. in Wroclaw, Poland - producer of the chassis and brakes components

07-08/2011

Achievement: Quality Report presented during successful audit with one of leading clients and contributing to extension of the contract. Familiarisation with proceedings of production process function of quality control in automotive branch. Tasks included report writing, translation of company documentation and presentation of quality improvement proposals. Participation in audits and appointments with customers that exerted influence on negotiation and persuasion competencies.

SKILLS

Technical skills and competences:

- Programming skills: C, C++, Java, MATLAB, Python
- ROS
- Experience with real robots
- Microsoft Office, Latex

Languages:

- Polish – mother tongue
- English – proficient
- German – advanced
- French - beginner

Social and organizational skills and competencies:

- Organisation of events, mastered during voluntary preparation of the activities associated with “The 35th Anniversary of the First Flight To The Outer Space Of Polish Astronaut Miroslaw Hermaszewski”
- Oral presentation abilities developed during public speeches in Polish schools encouraging students to study exact sciences and pursue engineering career
- Ability to adapt to multilingual and multicultural environments
- Experience in group project work

Driving license

INTEREST

- Distributed systems
- Human-robot interaction and mixed societies of humans and robots
- Multi-robot coordination and socially-aware robots

REFERENCES

ACADEMIC	WORK EXPERIENCE
<p>Alcherio Martinoli, Associate Professor Robotics, Control and Intelligent Systems École Polytechnique Fédérale de Lausanne Phone: +41 21 69 36891 Email: Alcherio.martinoli@epfl.ch Website: http://disal.epfl.ch</p> <p>Pedro U. Lima Institute for Systems and Robotics Instituto Superior Técnico (IST) - Universidade de Lisboa (IST/UL) Phone: +351-218418274 Email: pal@isr.tecnico.ulisboa.pt Web: http://users.isr.tecnico.ulisboa.pt/~pal/</p> <p>Roderich Gross, Ph.D. Lecturer Department of Control and Systems Engineering University of Sheffield Mappin Street, Sheffield S1 3JD Phone: +44 114 222 5610 Email: r.gross@sheffield.ac.uk Website: http://naturalrobotics.group.shef.ac.uk</p> <p>Behcet Acikmese, Assistant Professor Aerospace Engineering and Engineering Mechanics University of Texas at Austin Phone: (512) 471-7034 Email: behcet@austin.utexas.edu Website: http://behcet.ae.utexas.edu</p>	<p>Daniel Lüdtké German Aerospace Center Simulation and Software Technology for Space Systems Phone: +49 531 295-2952 Email: Daniel.Luedtke@dlr.de Website: http://www.dlr.de/sc</p> <p>Dr Jim Heley Head of Integrated Manufacturing Group AMRC with Boeing Phone. 01142227654 Email: j.heley@sheffield.ac.uk</p>