

Robotics

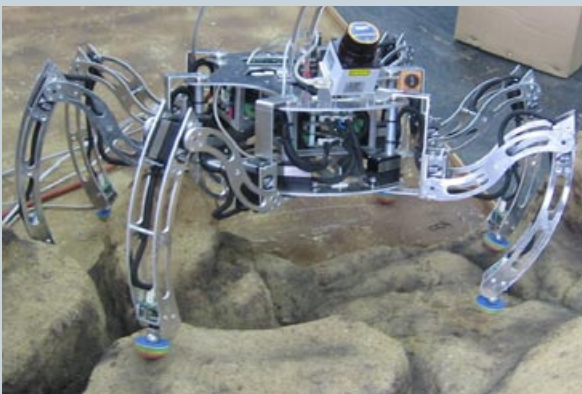
Field of study: Control Engineering and Robotics



Florian Cordes, member of StarTiger Dropter team

Programme description

Graduate engineering studies provide knowledge of basic problems of automation and robotics: dynamic systems, signal processing, robot kinematics, components and industrial automation equipment, design and programming of microprocessor systems, industrial controllers, sensors and vision systems. Graduates have competencies necessary for projects of medium difficulty in the field of measurement and control. They are able to solve practical problems concerning the application of industrial automation and simple robotic systems. Knows the basic social, legal, economic and technical determinants of implemented projects.



Course summary:

Semester 1

- Information Engineering
- Mathematics
- The elements of computer science techniques
- Ergonomics, Occupational Health and Safety, intellectual properties protection

Semester 2

- Physics
- Electrical Engineering
- Theoretical mechanics and mechanics of materials
- Dynamic systems and signals

Semester 3

- Electronics
- Robotics
- Real-time systems
- Automatic Control

Semester 4

- Foundations of electrical drives
- Metrology
- Selected topics an mathematics
- Microprocessors systems
- Internships

Semester 5

- System identification
- Actuators and devices of automation
- Flexible manufacturing systems
- Control theory of the continuous and discrete events processes

Semester 6

- Elective course I
 - Programmable logic devices
 - Project Management
- PLC and Digital Controllers
- Control of electromechanical systems
- Foundations of mechanical constructions
- Computer Control Systems
- Diploma seminar

Semester 7

- Elective course II
 - Modern sensors in robotics
 - Fieldbuses and distributed control systems
- Robot programming and task planning
- Designing of systems in UML language
- Diploma seminar



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University	Poznan University of Technology Poznan, POLAND
Degree to be obtained	Bachelor of Science (Engineer)
Department	Faculty of Electrical Engineering
Address	Piotrowo 3A 60-965 Poznan Phone: +48 61 665 2539 Fax: +48 61 665 2548
Programme web site	http://www.put.edu.pl/
Contact	Lifelong Learning and International Education Office Pl. M. Skłodowskiej-Curie 5 60-965 Poznan
Phone	+48 61 665 3544
Fax	+48 61 665 3956
E-mail	study@put.poznan.pl
Language of instruction	English
Tuition fee	EU citizens: free of charge NON-EU citizens: 2000 EUR per year
Registration fee	EU citizens: 85 PLN NON-EU citizens: 200 EUR
ETCS points	210
Duration	3.5 years (7 semesters)
Programme begins	end of September
Programme ends	end of February
Deadline for applications	June 1
Education requirements	English language – level B2 (Common European Framework), Secondary school certificate which entitles its holder to apply to higher education institutions. Full list of the required documents is available at http://www.put.edu.pl/
Mode of instruction	Lectures, classes, laboratory classes, projects, internships, seminars

