Filip Marić

WORK EXPERIENCE

NOVEMBER 2018 - PRESENT STARS lab (Toronto), LAMOR (Zagreb)

Junior researcher

Researching motion planning in robotics, facilitating collaboration between the above laboratories.

JULY 2016 - AUGUST 2016

INETEC - Institute for Nuclear Technology Research and development intern

Designing framework for computer vision algorithms used in robot manipulator localization. Developing in C# with OpenCV libraries and utilizing structural properties of nuclear plant.

PROJECTS AND PUBLICATIONS

Towards Automatic Self-Calibration of Mobile Manipulator Kinematics and Sensor Extrinsics Using Contact Information

Accepted ICRA 2018 paper on kinematic self-calibration of an RGBD camera using contact.

Thing mobile manipulator

Developing motion planning and control for the Thing mobile manipulator at University of Toronto Institute for Aerospace Studies.

Kinematic Educational Robot (KER)

Open source, low-cost quadruped platform with ROS and simulation capabilities.

Robot arm teleoperation via RGBD sensor palm tracking

Paper presented at MIPRO 2016. Work is indexed in IEEE Xplore and results featured online.

AWARDS AND ACHIEVEMENTS

2018 **UofT Joint Educational Placement**

UNIVERSITY OF TORONTO
Fully funded international PhD collaboration
with the LAMOR laboratory at the UZagreb.

2017 Dr. Jasna Šimunić-Hrvoić scholarship

UNIVERSITY OF ZAGREB Full financing for working on my Master's thesis at the University of Toronto.

2016 Rectors award

UNIVERSITY OF ZAGREB

Awarded for best student scientific thesis.

2015 Erasmus scholarship

EUROPEAN COMISSION

Exchange scholarship awarded based on academic results.

♦ 15.04.1993

a +385 98 904 9565

⊠ filipmaric@protonmail.com

f hr.linkedin.com/in/filipmre

EDUCATION

NOW Ph.D candidate

University of Toronto

Researching high dimensional trajectory planning in stochastic environments at Space and Terrestrial Autonoums Robotic Systems Lab.

2017 M.Sc Electrical Engineering and IT

UNIVERSITY OF ZAGREB

Attended Faculty of Electrical Engineering and Computing, focus on robotics.

2017 Graduate exchange

UNIVERSITY OF TORONTO Institute for Aerospace Studies

2016 Graduate exchange

AALBORG UNIVERSITAT

Department of Electronic Systems

SOFTWARE SKILLS

EXPERIENCED MATLAB, ROS, Simulink, Gazebo
INTERMEDIATE C++, Git, Blender, Step 7, Linux
BASIC Python, PCL, AutoCAD, ZMQ

ENGINEERING SKILLS

EXPERIENCED Robotics, Control, Motion Planning
INTERMEDIATE Estimation theory, Optimization
BASIC Microcontrollers, Machine learning

LANGUAGE SKILLS

ENGLISH Full professional proficiency

(TOEFL: 109/120)

FRENCH Elementary proficiency

CROATIAN Native speaker

OTHER EXPERIENCE

Leading 3 - 5 person (international) teams in multiple projects

Presenting projects at international conventions, for reporters, investors

Presenting results to audiences in both English and Croatian