

PETER HUSZAR

Software and hardware developer



INFO

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<https://www.linkedin.com/in/huszar-peter/>

BLOG

<https://peterhuszar.medium.com/>

ONLINE CV & WORKS

<https://peterhuszar.github.io/cv/>

PROFILE

I graduated as an MSc electrical engineer. I have been working as a software developer in the recent years. I am also a Ph.D. student and my research focuses on the application of unmanned aerial vehicles. I have more than three years of experience in the aerospace industry, of which one year was at the German Aerospace Center (DLR). I have expertise in both software and hardware development. I regularly give presentations at conferences and publish my articles.

SKILLS

Software Development

Python 3 C uPython

Git Bitbucket JIRA

SonarQube Automated

VS Code Reporting

Source Code Generating ECSS MISRA C

Drones Presentation

CubeSats Publication

Public Speaking Research

Hardware Development

PCB Design AltiumDesigner Schematic Design

EXPERIENCE

Software Developer

Budapest, Hungary
(2018.12. - 2021.01.)

Complex Systems & Small Satellites (C3S) LLC.

Technologies: Python3, C, VS Code, Atollic, Bitbucket, Bamboo, JIRA, SonarQube, laboratory test equipment

- Write Python scripts to automate our processes and to generate source code, reports and documentation.
- Maintain embedded C source code.
- Test and verify the functionality of the satellite subsystems.
- Project preparation for the ESA (European Space Agency).
- Present our results on a conference and take part in a scientific paper at CubeSat development.

Hardware Developer
Budapest, Hungary
(2017.03. - 2018.11.)

Thyssenkrupp E/E Competence Center

Technologies: Python2/3, PyCharm, FLIR thermal cameras, thermal chambers, Altium Designer, SVN, laboratory equipment

- Design, test and verify electronic control units (ECU) for electric steering systems intended to be used in self-driving cars
- Test and compare special PCB technologies.
- Perform electrical and thermal measurements.
- Implement Python scripts to automate verification processes and documentation.

Hardware Developer
Bremen, Germany
(2015.10. - 2016.09.)

**German Aerospace Center
(Deutsches Zentrum für Luft- und Raumfahrt - DLR)**

Technologies: Altium Designer, Eagle, LTspice, SVN, laboratory test equipment

- Design three different, CubeSat compatible subsystems for the ROBEX project. A high resolution ADC unit for seismic data acquisition, an On-board Computer (OBC) and an Interface Board (IF).
- Manufacture, test and verify all of them.
- Cooperate with a highly international team on a daily basis.

Electrical Engineer
Mrieħel, Malta
(2015.06. - 2015.09.)

Hetronic Malta Ltd.

Technologies: EAGLE, LTspice, CircuitMaker 2000, laboratory equipment

- Design jigs and special hardware units to be used in production lines.
- Improve test methods and procedures.
- Audit production cells.

Laboratory Demonstrator
Budapest, Hungary
(2016.09. - 2016.12.)

Obuda University

Technologies: dsPIC33F, MPLAB-X, laboratory equipment

- Teach digital signal processor (DSP) assembly programming for students and show them how to measure such devices.

EDUCATION

PhD
Military Engineering
Budapest, Hungary
(2018. - Present)

National University of Public Service

Doctoral School of Military Engineering

Research field: Defense electronics, information technology and communication

MSc
Electrical Engineering
Budapest, Hungary
(2014. - 2016.)

Obuda University
Kando Kalman Faculty of Electrical Engineering
Specialization: Electrical Machines and Electrical Power
Converters, **Classification:** Outstanding

BSc
Electrical Engineering
Budapest, Hungary
(2010. - 2014.)

Obuda University
Kando Kalman Faculty of Electrical Engineering
Specialization: Communication Engineering, Microwave
Communication, **Classification:** Outstanding

AWARDS & HONORS

Research Fellowship New National Excellence Program of the Ministry for Innovation and Technology research fellowship granted for the academic year 2019/20. Research topic: **"Tools and possibilities of defending against drones"**

Special Prize XXXIII. National Conference of Scientific Students' Associations

Scholarship The Minister of Education awards the Fellowship granted by the Republic to students after at least two semesters of outstanding academic/professional achievement, working with unique success in the scientific students' circle

Special Prize XXXII. National Conference of Scientific Students' Associations

2nd Prize Obuda University XLIV. Scientific Students' Conference

2nd Prize University of Timisoara XV. Scientific Students' Conference

1st Prize Obuda University XXXVIII. Scientific Students' Conference

PUBLICATIONS

- Huszar, P. (in press) **The Potential of Fifth Generation Mobile Networks for Unmanned Aerial Vehicle Systems**, in: Hausner, G. Szemelvények a katonai műszaki tudományok eredményeiből II., Ludovika Egyetemi Kiadó, Budapest
- Huszar, P. (2020) **Challenges of Defense Against Drones**, 9th Interdisciplinary Doctoral Conference, Book of Abstracts, ISBN 978-963-429-582-2
- Huszar, P. (in press) **Drone Remote Identification**, Aeronautical Science Bulletins
- Huszar, P. (in press) **Threats Against Drones from Cyberspace**, Aeronautical Science Bulletins
- Reizinger, P., Huszar, P., Milankovich, D., Szell, A. (in press) **Cubesat Development from the Perspective of Versatility and Easy Reproducibility**, Aeronautical Science Bulletins
- Huszar, P. (2019) **Analysis of Ukrain's Crowdfunded Military Purpose Octocopters**, Hadmérnök 14(2), 34–43.
- Huszar, P. (2019) **Improving Communication Efficiency Between UAV and it's Ground Segment**, Aeronautical Science Bulletins 31(1), 167–182.<https://doi.org/10.32560/rk.2019.1.14>

For abstracts, links and more information about the above publications, please visit the following subpage of my online CV: <https://peterhuszar.github.io/cv/publications>

CONFERENCES ATTENDED RECENTLY

The Hague, Netherlands
2020.01.13.-16.

RPAS CivOps 2020 Conference, 8th Annual European Civil
RPAS/Drone Operators & Operations Forum

Poland, Torun
2019.10.18.-19.

Drone Tech World Meeting

LANGUAGES

English - C1

I speak and write in English fluently. I understand highly
technical and complex texts and lectures.

German - A1

During my internship in Germany, I took online courses and I
learned the basics but I have not used it recently.

Hungarian - native