Péter Onódi

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EDUCATION

MSc in Aerospace Engineering at TU Delft, The Netherlands *Sep 2016* – Present

- *Track*: Flight Performance and Propulsion
- *GPA*: 8.84 / 10
- *Relevant subjects*: Multidisciplinary Design Optimization, Advanced Aircraft Design I-II, Knowledge Based Engineering, CFD for Aerospace Engineers, Linear Modeling (incl. F.E.M), Automatic Flight Control System Design, Aero Engine Technology, Turbomachinery, Aircraft Performance Optimization

BSc in Vehicle Engineering at Budapest University of Technology and Economics (BME), Hungary *Sep 2012 – Jan 2016*

- *Track*: Aerial Vehicles
- *GPA*: 4.64 / 5

WORK EXPERIENCE

Teaching assistant at TU Delft, Faculty of Aerospace Engineering, the Netherlands
Aerodynamics, Wind Energy, Flight Performance & Propulsion (AWEP) Department

- Turbomachinery MSc course *Nov 2017* – Present

Intern at Fokker Aerostructures B.V., The Netherlands
Product Group Fuselages *Jun 2017 – Sep 2017*

- *Responsibilities*: Developing a Knowledge Based Engineering application in Python for fast and flexible preliminary design of fuselages. My tasks included generative CAD modeling and automatic FEM mesh generation (NASTRAN).
- *Results*: The tool will be further developed and integrated into the design workflow. Successfully demonstrated the tool's capabilities at a workshop for engineers and now it is used in an on-going project.

Software developer at Hungarian Academy of Sciences, Institute for Computer Science and Control (MTA SZTAKI), Hungary
Aerospace Guidance, Navigation and Control Group *Jul 2015 – Jun 2016*

- *Responsibilities*: Participating in the development of a new safety-critical UAV. Tasks included component design, CAD modeling and PLM, aerodynamic analysis, flight dynamics simulation in Matlab Simulink, manufacturing composite parts and flight tests of a UAV developed by the institute. Flight dynamics analysis and component design in the FLEXOP EU project.
- *Results*: The aircraft was manufactured by a group of 3 in less than 2 months. After the successful flight tests the UAV was used in the development of a new flight control computer and an innovative camera-based collision avoidance system.

ACADEMIC AWARDS, SCHOLARSHIPS

SCHOLARSHIPS

- Scholarship of the Hungarian Republic, *Sep 2015 – Jun 2016*
  Granted by the Hungarian Government for outstanding academic performance (top 0.8%)
- KBME scholarship, *Sep 2014 – Jun 2016*
  For community activities at the university
- TÁMASZ scholarship, *Sep 2014 – Jun 2015*
  Granted for foreign students, based on academic results and extracurricular achievements

COMPETITIONS

- Fokker Knowledge Based Engineering Competition, Papendrecht (NL) *Feb 2017 – Jun 2017*
  Developed a software tool for rudder design with one teammate. We took 2nd place.
- Aircraft Design Competition, Brussels (BE) *Dec 2013 – May 2014*
  Our team designed a high speed, long range UAV. We were invited to the **Short Course on UAVs and Small Aircraft Design** in The von Karman Institute for Fluid Dynamics to present our concept.

PROJECTS, ASSOCIATIONS

Project Talaria *Nov 2017 – Apr 2017*

- Member of the propulsion team
- Participated in the design of the Hermes I personal flying device developed for the 1st round of the GoFly competition

Aircraft Manufacturing Laboratory *Feb 2017 – Jun 2017*

- Leader of one of the two construction groups
- Started the manufacturing of a Van's RV-12 general aviation aircraft built entirely by students
- Our team set up a new laboratory for manufacturing and built the tail section of the aircraft

Student Association of Mechanical Engineers (BME GJSZ) *May 2014 – Jan 2016*

- Founder member of Aerial Vehicle Group
- Participated in the conceptual design of a closed wing UAV

Department of Vehicle Elements and Vehicle-Structure Analysis, BME *Dec 2014 – Feb 2015*

- Developed a simple, user-friendly design software for a customized motorhome manufacturer.

Közhír - Faculty Magazine *Oct 2012 – Dec 2015*

- Student magazine of the year in 2015 (DUE Award)
- Tasks as editor included writing interviews and technical articles

Mentor Team *Apr 2014 – Mar 2016*

- Coaching 20 first-year students and organizing faculty events
- Teaching preparatory courses and consultations (Math, Engineering Drawing, etc.)

Budapest University of Technology's Sport Flying Association (MSE) *Oct 2015* – Present

- Member of the Soaring Section (level: FAI C Badge)

LANGUAGES SKILLS

- English: Fluent (Level C1), IELTS Academic Test (Overall Band Score: 8/9)
- Hungarian: Native
- Slovak: Fluent (Level C1)
- German: Intermediate (Level B2)
- Czech: Intermediate
- Dutch: Beginner

COMPUTER SKILLS

Programming: Matlab, Python, ParaPy; HTML, CSS, XML; Subversion, Git
CFD: Ansys (CFX), Multall, XFLR5, Tornado, AVL
CAD: Solid Edge, Catia, OpenCASCADE
FEM: Femap, Abacus, Patran/Nastran

INTERESTS

Gliding, running, traveling, scale model building

Delft, May 21, 2018