HUSEYIN BURAK KURT
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EDUCATION

Istanbul Technical University	Master of System Dynamics and Control	June 2018
	Overall GPA: 3.44 | Istanbul, TURKEY	
Technical University of Delft	Erasmus Exchange Program in Master of System and Control	Spring 2017
	Delft, NETHERLANDS	
Istanbul Technical University	Bachelor's Degree, Mechanical Engineering	June 2014
	Overall GPA: 2.72 | Istanbul, TURKEY	

EXPERIENCE

Turkish Aerospace. – Flight Control System Engineer | Ankara, Turkey   Still – Nov 2017
- Working topics; Multi-objective Optimization, Handling Qualities, Artificial Neural Networks, System Identification.

Micro Air Vehicle LAB. – Erasmus Internship | Delft, Netherlands   July – Sep 2017
- Worked as a part of IROS 2017 Autonomous drone race team
- Gate corners are detected using Viola-Jones algorithm for autonomous flying. The detection algorithm is implemented to Parrot Bebop.
- Also, Algorithm integrated to paparazzi drone environment.
- **GitHub link:** *https://github.com/burakkurtt/Gate-detection-with-viola-jones*
- **YouTube link:** *https://www.youtube.com/watch?v=3dtpPgeq9Ws&t=5s*

Istanbul Technical University – Automation LAB. – Thesis Student | Istanbul, Turkey   Jan 2016 – Feb 2017
- Worked as a master thesis student.
- Autonomous UAV platform is developed for advanced research applications.
- Developed platform is controlled with ball track algorithm.
- **YouTube link:** *https://www.youtube.com/watch?v=MzzVoW6CfGc*

Istanbul Technical University – Prof. Dr. M. Koseoglu Composite LAB. – Part time project student | Istanbul, Turkey   May - Aug 2016
- Manufactured different composite materials by vacuum diffusion method
- Developed composite materials to solve problems which face industry

MEAM – ITU Mechatronics Education and Research Center – Graduation Project Student | Istanbul, Turkey   2013 - 2014
- Worked as part of team of UMAY Project which is the project develops humanoid robots
- Humanoid robot head and neck are developed and manufactured.
- Manufactured head and neck are assembled and controlled by Robot operating system (ROS)
- YouTube link: *https://www.youtube.com/watch?v=mrUHchXMqlk*

Metrolojistik Calibration Center – Volunteer internship | Eskisehir, Turkey   July 2013
- General information is learned about calibration. Gain experience with some type of calibration

Turkey Engine Industry – Obligatory internship | Eskisehir, Turkey   Sep 2012

Turkish Aerospace – Obligatory internship | Ankara, Turkey   Aug 2012

Work and Travel – Employee | Delaware, USA   July – Sep 2011
- Worked as an employee at McDonald's company.

Istanbul Technical University – Gumussuyu Engineer Workshop – Obligatory internship | Istanbul, Turkey   June 2011
- Lathe machine, drilling machine and other manufacturing machines are learned and made practice with all of them.

PUBLICATIONS

International Conference Papers
- Hüseyin Burak Kurt, Murat Millidere, Emrah Sezer, "*Aerodynamic Database Simulation Implementation Based on Neural Network and Neural Network Parameter Selection Using Genetic Algorithms*", accepted for publication at the Europen Conference for Aeronautics and Space Sciences (EUCASS) July 1, 2019.
                                    July 2019
- Hüseyin Burak Kurt and Erdinç Altug, "*ORB-SLAM and Inertial Sensor Fusion for GPS Denied Environments for Autonomous Car Localization*", accepted for publication at the International Automotive Technologies Congress, OTEKON 2018, May 7, 2018.
                                    May 2018
- Hüseyin Burak Kurt and Erdinç Altug, "*Development of an Autonomous UAV Platform for Advanced Research Applications*", accepted for publication at the 2017 International Conference on Mechatronics Systems and Control Engineering (ICMSCE 2017), Abdullah Gül University, Kayseri, Turkey, February 2-4, 2017.
YouTube link: *https://www.youtube.com/watch?v=MzzVoW6CfGc*
                                    Feb 2017

National Conference Papers
- N.Topuz, H.B. Kurt, P.Boyraz, C.B. Yiğit, "Module And Flexible Neck Mechanism Design And Control For Humanoid Robot ", Turkish National Committee for Automatic Control, TOK'14, s:102-107, 11-13 September 2014, Kocaeli. YouTube link: https://www.youtube.com/watch?v=mrUHchXMqlk
                                    Sep 2014

HONORS

- Erasmus Internship Scholarship – Netherlands (3 months)   Summer 2017
- Erasmus Education Scholarship – Netherlands (5 months)   Spring 2017

ADDITIONAL INFORMATION

Skills: MATLAB / Simulink, ROS (Robot Operating System), Linux, C, C++, Python, Arduino, SolidWorks, AutoCAD, OpenCV, MS Office
Languages: Fluent in Turkish and English
Interests: Computer Vision, Mobile Robotics, Unmanned Aerial Vehicle, Humanoid Robots, Machine Learning, Deep Learning, Swarm Robotics
YouTube Address: https://www.youtube.com/user/MrBrkkrt   **LinkedIn Address:** https://www.linkedin.com/in/huseyinburakkurt
GitHub Address: *https://github.com/burakkurtt*   **Skype name:** hsynbrkkrt