# Fuat Ozan Dengiz
# Resume



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| **PERSONAL INFORMATION** | **Personal mail:** ozan.dengiz@outlook.com  **Mobile:** +372 5784 5001 <br> **Drivers License:** EU & TR  **Birth Date:** 04.04.1994 <br> **Website:** https://ozandengiz6.wixsite.com/odengiz |
| **OBJECTIVE** | **To handle the technical management of the engineering team of R&D department.** |

## SCHOOLS

**RWTH AACHEN UNIVERSITY -** Aachen, GERMANY (2019 - 2020)
Faculties of Mechanical Engineering & Electrical Engineering and Information Technology (M. Sc.)

**TALLINN UNIVERSITY OF TECHNOLOGY -** Tallinn, ESTONIA (2018 - 2021)
Faculty of Engineering – Department of Electrical Power Engineering and Mechatronics (M. Sc.)

**ÖZYEĞİN UNIVERSITY -** Istanbul, TURKEY (2012 - 2017)
Faculty of Engineering – Department of Electrical and Electronics Engineering (B. Sc.)

**TED ISTANBUL COLLEGE HIGH SCHOOL -** Istanbul, TURKEY (2008 - 2012)
Science &  Mathematics Department

## OTHER EDUCATION

**Figes BuildUp Academy -** Istanbul, TURKEY (2017 - 2018)
Certified, R&D Engineering – Electrical and Electronics Engineering (240 hours)
- Model-Based Control System Design, Soft Skills, TRIZ, Bond Graph Theory, Electromagnetics, PLC, VHDL, MathWorks Softwares, ANSYS Softwares

**Festo Didactic -** Istanbul, TURKEY (2015)
Certified, Department of Mechatronics Engineering (80 hours)
- PLC, Servo Motors & Drivers, Industrial Electrics, Sensors, Pneumatics

**Sabancı University -** Istanbul, TURKEY (2011 & 2012)
Certified, Summer Schools for High School Students
- Sectoral & Mechatronics & Quantum Mechanics Courses

**Boğaziçi University -** Istanbul, TURKEY (2009)
Certified, Summer School for High School Students
- Sectoral & Science Courses

## CERTIFICATES

- Research & Development Engineering, Figes Engineering (2018)
- Photoshop, Burak Bulut Studio (2017)
- Programmable Logic Controllers, Özyegin University (2016)
- Project Management, Özyeğin University (2016)
- Mechatronics, FESTO Didactic (2015)
- Studio Photography with Models, Burak Bulut Studio (2015)

## COMPUTER SKILLS

- OS: Windows OS with Microsoft Office tools, Linux OS (Ubuntu), ROS (Kinetic)
- Programming: Java, C, Arduino, Assembly, LaTeX, VHDL, FPGA
- Mechatronics: ABB Automation Builder & CoDeSys, SIEMENS TIA, FESTO Step7, BECKHOFF TwinCAT
- Robotics:  ABB RobotStudio, FANUC ROBOGUIDE
- MathWorks; MATLAB, Simulink, Simscape, Signal Processing, Stateflow, Code Generation, GUI
- ANSYS; Maxwell, Simplorer, HFSS, RMxprt, PExprt, SCADE Architect, SCADE Suite, SCADE Display
- Electronics: Altium, Proteus, PCSCHEMATIC, , Xilinx ISE, ModelSim, MultiSim
- Design: SolidWorks, SketchUp, Visual Components, AnyBody, LabVIEW
- Electrical: Circuit Design, PCB Design, Chip Programming, PLC,  Simulations
- 3D technology: 3D Printing, 3D Scanning, 3D Design

## Fuat Ozan Dengiz – Resume

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| **WORK EXPERIENCES** | **ABB -** Tallinn, ESTONIA<br>**Position:** Global Product Owner, Drives Center (01/2024 – Current)<br>♦ Handling the technical management of the local software development team including communication between firmware testing and development teams in Estonia and Finland.<br>♦ Planning the technical work for product releases and R&D related work as well as assisting the global planning for the drives products with cyber security requirements.<br>**Position:** Global Product Owner, Drives Center (06/2022 – 01/2024)<br>♦ Handling the technical management of the software test development team, planning the technical work for product releases and R&D related work<br>**Position:** Software Test Engineer, Drives Center (06/2019 – 01/2024)<br>♦ Working with the Scale Agile Framework engineering team with SCRUM ideology, helping several R&D tasks of product development for various drives<br>**SANTOR ENGINEERING -** Istanbul, TURKEY<br>**Position:** Systems & Software Engineer, Automotive R&D Department (03/2018 – 08/2018)<br>♦ Assisted technical projects of Sherpa Engineering and learned how to use tools including PhiSim, worked with the application engineers of Figes Engineering on projects with MathWorks tools, updated/documented/tested/verified/validated climatization control systems for hybrid and electric vehicles with specific requirements each quarter, assisted on the creation of a project management tool with specific requirements for PSA<br>**IEEE ÖZYEĞİN UNIVERSITY STUDENT BRANCH -** Istanbul, TURKEY<br>**Position:** Vice-President, Board of Directors (06/2013 – 07/2017)<br>♦ Assisted with the re-found of the branch in university, responsible for organizing and directing the events related to IEEE university branch, assisted with the education of the active members such as Arduino and Matlab courses, directed the Robotics and Automation Society (RAS) of the section.<br>**HEXAGON STUDIO -** Istanbul, TURKEY (06/2016 - 07/2016)<br>**Position:** Systems Engineering Intern, Electronic Integration & Software Engineering Department<br>♦ Assisted various tests and implementations on hybrid electric vehicle projects, prepared a research of electronics and created a test device design and prepared a report according to the developed results with Electronic & Software, System Design and Electrical Distribution System engineers.<br>**OZU 360 -** Istanbul, TURKEY<br>**Position:** University Photographer, Digital Media Team (09/2013 - 05/2016)<br>♦ Assisted the university events of students and administration; responsible for tracking and photograph the club activities; created the university archives.<br>**INFOTRON+ -** Istanbul, TURKEY<br>**Position:** Application Engineering Intern, 3D Printing Department (06/2014 - 07/2014)<br>♦ Assisted the additive manufacturing department and mastered types of printers, created geometric visuals to print with FDM technology, joined the 3D scanning and reverse engineering departments. |
| **LANGUAGE** | **Turkish:** Native     **English:** Advanced (C1)     **French:** Elementary (B1)     **German:** Beginner (A1)<br>**TOEFL:** 88 ≈ **IELTS**: 6.5 (2017)               **GRE:** 165 / 170 ≈ **GMAT:** 790 / 800 ≈ **ALES:** 99 / 100 (2017) |
| **OTHER ACTIVITIES & EXPERIENCES** | ♦ Martial Artist; Judo (Black Belt), Muay Thai, Wing Tsun & Escrima (WTEO), Systema<br>♦ IEEE Member; Global, Turkey, Estonia, Young Professionals, RAS, CSS, PES, Standards Committees<br>♦ Member; EMO (Chamber of Electrical Engineers of Turkey)<br>♦ Professional, Photographer; www.odengizphotography.com<br>♦ Volunteer; TEMA (Turkey), TURMEPA (Turkey), ESN (Estonia), AEGEE (Germany)<br>♦ Control Committee; Technology and Robotics Club (2013 – 2015)<br>♦ President and Directors Board; Cinema Club (2012 – 2015)<br>♦ Designed, executed and assisted 100+ university level events on technical & non-technical topics including conferences, trainings, IoT, project management, perpetual motion, technical writing, technical presentation, movie review, photography and social media (2013-2017)<br>♦ Worked in technical & non-technical projects aiming to have real life business results as a team member, founder and leader (2015-2020) |

| TECHNICAL ENGINEERING PROJECTS | **RWTH AACHEN UNIVERSITY, Degree Projects -** Aachen, GERMANY (2019 - 2020) |
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**RWTH AACHEN UNIVERSITY, Degree Projects -** Aachen, GERMANY (2019 - 2020)

**Position:** Project Owner (Materials, Electrical & Mechanical, Robotics)

1. Prepared a research paper to present a seminar regarding the materials of electrical engineering focusing specifically on integration of two-dimensional (2D) materials in resistive switching devices.
2. Studied the programming of a work cell with ROBOGUIDE software on a FANUC robotic arm.

**ABB ESTONIA, Contest Project -** Tallinn, ESTONIA (2019)

**Position:** Project Team Manager (Marketing, Electronics, Control)

♦ Managed the diverse team participating the traineeship contest named EarCatcher.

♦ Prepared the prototype of a drumset game developed with company products for career fairs.

**TALLINN UNIVERSITY OF TECHNOLOGY, Exoskeleton Project -** Tallinn, ESTONIA (2019-2020)

**Position:** Project Team Lead (Mechatronics, Systems, Management)

♦ Prepared a research on exoskeletons for human performance augmentation to prevent heavy-lifting injuries in production factories in a certain process.

♦ Worked on a specific solution of wearable upper-body exoskeleton for production workers handling 35 kg weight including the process simulation, 3D design and human-machine interaction analysis.

♦ Created controlled motion simulations of exoskeleton with multidomain mathematical model.

♦ Published a conference paper on the project and presented it on the symposium.

♦ Prepared and defended a Master Thesis on development of an upper-body exoskeleton

**TALLINN UNIVERSITY OF TECHNOLOGY, Degree Projects -** Tallinn, ESTONIA (2018)

**Position:** Project Team Member (Modeling, Robotics, Space, Mechanical, Mechatronics, Control)

1. Prepared and published a research on current 3D technologies mainly focused on 3D scanning and 3D printing including the theoretical analysis and practical work with necessary equipment .
2. Programmed an underwater robot for orientation and depth control with motor sensors connected to Arduino (C++) with ROS in Linux (Ubuntu) using PID controller, Fuzzy Logic and Kalman filter.
3. Participated in the future missions team during the University Satellite Hackathon.
4. Helped the mechanical design of the ground station to control the university satelitte after launch.
5. Designed the 3D model ( SolidWorks), built the electromechanical circuit (MATLAB), prepared a front panel to control arms ( LabVIEW) for ABB YuMi dual-arm colloborative robot using three interactive software for certain simulations.
6. Designed an operation interface using a Programmable Logic Controller with ABB Automation Builder software and CoDeSys visualization platform for liquid control in a tank.

**TEKNOFEST ISTANBUL, Contest Project -** Istanbul, TURKEY (2017 - 2018)

**Position:** Project Team Leader (Mechatronics, Automation, Control, Management)

♦ Managed the engineering team participating the contest for Turkey Technology Team Foundation.

♦ Helped the development of colloborative robots including an Unmanned Air Vehicle and an Unmanned Ground Vehicle communicating with each other to achieve a certain goal.

**ÖZYEĞİN UNIVERSITY, Senior Project -** Istanbul, TURKEY (2016 - 2017)

**Position:** Project Owner (Robotics, Systems – Patented)

♦ Designed, built, and programmed a genuine martial arts training gadget.

♦ Managed, reported, and defended the projet to committee successfully.

♦ Selected as a finalist in IEEE Turkey Senior Projects Contest and presented the project poster at IEEE Turkey Student Congress held at Cyprus campus of Middle East Technical University.

**ÖZYEĞİN UNIVERSITY, Course Projects -** Istanbul, TURKEY (2013 - 2015)

**Position:** Project Owner (Mechatronics, Electronics, Electrical, Computer)

1. Designed and installed a setup of force measurement system using a fluidic muscle by FESTO.
2. Prepared an automated mini sumo robot to complete certain tasks.
3. Built an electronic hotel safe circuit that has full functionality for common usage.
4. Designed basic level games from scratch using object oriented programming methods in Java including Space Invaders and Block Breaker for Windows OS.

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| **PATENTS & PUBLICATIONS** | **MARTIAL ARTS TRAINING GADGET PATENT, Inventor (2017):**<br>**Türk Patent –** Applicant: Özyeğin University (14.02.2018)<br>Application No: 2018/02100 – Document No: 2018-GE-66611<br><br>**RESEARCH ON UPPER-BODY EXOSKELETONS FOR PERFORMANCE AUGMENTATION OF PRODUCTION WORKERS, Corresponding & Presenting Author (2019):**<br>• Participated the 30th Danube Adria Association for Automation & Manufacturing (DAAAM) International Symposium in Zadar, Croatia (dpn: 74075)<br>• Presented the project poster for the conference hall<br>• Awarded with best oral presentation voted by experts of DAAAM 2019<br>• Proceedings of the 30th DAAAM International Symposium on Intelligent Manufacturing and Automation, Published by DAAAM International, ISSN 1726-9679, Vienna, Austria<br>• DOI: 10.2507/30th.daaam.proceedings.126<br>**SURVEY ON 3D TECHNOLOGIES: CASE STUDY ON 3D SCANNING, PROCESSING AND PRINTING WITH A MODEL, Corresponding & Presenting Author (2020):**<br>• Participated the 21st International Conference on Research and Education in Mechatronics (REM) in Cracow, Poland (paper: 8)<br>• Presented the project on virtual platform with all accepted works<br>• Paper has been indexed in the IEEEXplore digital library database<br>• DOI: 10.1109/REM49740.2020.9313881<br>**RESEARCH ON INTEGRATION OF TWO DIMENSIONAL MATERIALS IN RESISTIVE SWITCHING DEVICES, Corresponding & Presenting Author (2021):**<br>• Participated the Advanced Materials WebCongress on Nanomaterials and Nanotechnology in Ulrika, Sweden (Vid. Proc. Adv. Mater., Volume 2, Article ID 2021-02139)<br>• Presented the research on virtual platform for the video journal<br>• Paper has been indexed in the open access Video Proceedings of Advanced Material by IAAM<br>• DOI: 10.5185/vpoam.2021.02139<br>**RESEARCH AND DEVELOPMENT ON MOBILE POWERED UPPER-BODY EXOSKELETONS FOR INDUSTRIAL USAGE, Author (2022):**<br>• Participated the International Symposium INFOTEH-JAHORINA in East Sarajevo, Bosnia and Herzegovina (VRT-1.1 (4))<br>• Presented the research on virtual platform<br>• Paper has been indexed in the IEEEXplore digital library database<br>• DOI: 10.1109/INFOTEH53737.2022.9751255 |
| **REFERENCES**<br><br>**(Contact info available upon request)** | • **Risto Rosin – R&D Manager** (2024 - 2025): ABB - Drives Engineering Department<br>• **Jaanus Karu – R&D Manager** (2022 - 2023): ABB - Drives Engineering Department<br>• **Anton Rassolkin - Thesis Supervisor** (2020 - 2021): Tallinn University of Technology - Mechatronics Department of Master Studies<br>• **Claus Pener - Team Leader** (2021): ABB - Software Engineering Department of Drives Center<br>• **Fatih Uğurdağ - Consultant, Academic Supervisor, Project Advisor** (2013 - 2019): Özyeğin University - Engineering Faculty & IEEE Student Branch<br>• **Mart Tamre - Programme Director, Academic Supervisor, Project Advisor** (2018 - 2019): Tallinn University of Technology - Mechatronics Department<br>• **Edgar Dubbelman - Team Leader, Traineeship Manager** (2019): ABB - Software Engineering Department of Drives Center<br>• **Hamza Dere - Supervisor, Technical Manager** (2017 - 2018): Figes Engineering - Technical Training Department of BuildUp Academy<br>• **Mert Mökükcü - Project Manager, Technical Manager** (2018): Sherpa Engineering - Santor Engineering Manager<br>• **Fethi Sercan Aydın - Team Manager** (2013 - 2016): Özyeğin University - Student Life Office<br>• **Onur Serin - Team Leader, Internship Supervisor** (2016): Hexagon Studio - Electrical & Electronics Department of Hybrid Electrical Vehicles |