

Fuat Ozan Dengiz

Resume



PERSONAL INFORMATION

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Birth Date: 04.04.1994

OBJECTIVE

To handle the technical management of the software testing team as Product Owner while remaining the current position in the team as an engineer.

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.)

ÖZYEGİN 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, PCSHEMATIC, , 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

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WORK EXPERIENCES

ABB - Tallinn, ESTONIA

Position: Software Test Engineer, Drives Center (06/2019 – Current)

- ◆ Working with the Scale Agile Framework engineering team with SCRUM ideology
- ◆ Helping several R&D tasks of product development for various drives

Position: Global Product Owner, Drives Center (06/2022 – Current)

- ◆ Handling the technical management of the software test development team
- ◆ Planning the technical work for product releases and R&D related work

SANTOR ENGINEERING - Istanbul, TURKEY

Position: Systems & Software Engineer, Automotive R&D Department (03/2018 – 08/2018)

- ◆ 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 and 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

IEEE ÖZYEĞİN UNIVERSITY STUDENT BRANCH - Istanbul, TURKEY

Position: Vice-President, Board of Directors (06/2013 – 07/2017)

- ◆ Assisted with the re-found of the branch in university
- ◆ Responsible for organizing, tracking and directing the events related to IEEE and university
- ◆ Assisted with the education of the active members such as Arduino and Matlab courses
- ◆ Directed the Robotics and Automation Society (RAS)

HEXAGON STUDIO - Istanbul, TURKEY (06/2016 - 07/2016)

Position: Systems Engineering Intern, Electronic Integration & Software Engineering Department

- ◆ Assisted various tests and implementations on hybrid electric vehicle projects
- ◆ Was responsible for research of electronic parts and created a design of a test device and prepared a report according to the developed results
- ◆ Observed Electronic & Software, System Design and Electrical Distribution System engineers

OZU 360 - Istanbul, TURKEY

Position: University Photographer, Digital Media Team (09/2013 - 05/2016)

- ◆ Assisted the university events of students and administration; responsible for tracking and photograph the club activities; created the university archives

INFOTRON+ - Istanbul, TURKEY

Position: Application Engineering Intern, 3D Printing Department (06/2014 - 07/2014)

- ◆ Assisted the additive manufacturing department and mastered different types of printers
- ◆ Created geometric visuals and printed them with FDM technology and observed the 3D scanning, visualization and reverse engineering departments

LANGUAGE & SCORES

Turkish: Native **English:** Advanced (C1) **French:** Elementary (B1) **German:** Beginner (A1)
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
- ◆ IEEE Member; Global, Turkey, Estonia, Young Professionals, RAS, CSS, PES, Standards Committees
- ◆ Member; EMO (Chamber of Electrical Engineers of Turkey)
- ◆ Professional, Photographer; www.odengizphoto.com
- ◆ Volunteer; TEMA (Turkey), TURMEPA (Turkey), ESN (Estonia), AEGEE (Germany)
- ◆ Control Committee; Technology and Robotics Club (2013 – 2015)
- ◆ President and Directors Board; Cinema Club (2012 – 2015)
- ◆ 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)
- ◆ 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)

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 satellite 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 collaborative 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 collaborative 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.

**PATENTS &
PUBLICATIONS**

MARTIAL ARTS TRAINING GADGET PATENT, Inventor (2017):

Türk Patent – Applicant: Özyeğin University (14.02.2018)
Application No: 2018/02100 – Document No: 2018-GE-66611

RESEARCH ON UPPER-BODY EXOSKELETONS FOR PERFORMANCE AUGMENTATION OF PRODUCTION WORKERS, Corresponding & Presenting Author (2019):

- Participated the 30th Danube Adria Association for Automation & Manufacturing (DAAAM) International Symposium in Zadar, Croatia (dpr: 74075)
- Presented the project poster for the conference hall
- Awarded with best oral presentation voted by experts of DAAAM 2019
- Proceedings of the 30th DAAAM International Symposium on Intelligent Manufacturing and Automation, Published by DAAAM International, ISSN 1726-9679, Vienna, Austria
- DOI: 10.2507/30th.daaam.proceedings.126

SURVEY ON 3D TECHNOLOGIES: CASE STUDY ON 3D SCANNING, PROCESSING AND PRINTING WITH A MODEL, Corresponding & Presenting Author (2020):

- Participated the 21st International Conference on Research and Education in Mechatronics (REM) in Cracow, Poland (paper: 8)
- Presented the project on virtual platform with all accepted works
- Paper has been indexed in the IEEEExplore digital library database
- DOI: 10.1109/REM49740.2020.9313881

RESEARCH ON INTEGRATION OF TWO DIMENSIONAL MATERIALS IN RESISTIVE SWITCHING DEVICES, Corresponding & Presenting Author (2021):

- Participated the Advanced Materials WebCongress on Nanomaterials and Nanotechnology in Ulrika, Sweden (Vid. Proc. Adv. Mater., Volume 2, Article ID 2021-02139)
- Presented the research on virtual platform for the video journal
- Paper has been indexed in the open access Video Proceedings of Advanced Material by IAAM
- DOI: 10.5185/vpoam.2021.02139

RESEARCH AND DEVELOPMENT ON MOBILE POWERED UPPER-BODY EXOSKELETONS FOR INDUSTRIAL USAGE, Author (2022):

- Participated the International Symposium INFOTEH-JAHORINA in East Sarajevo, Bosnia and Herzegovina (VRT-1.1 (4))
- Presented the research on virtual platform
- Paper has been indexed in the IEEEExplore digital library database
- DOI: 10.1109/INFOTEH53737.2022.9751255

REFERENCES

Fatih Uğurdağ - Consultant, Academic Supervisor, Project Advisor (2013 - 2019):

Özyeğin University - Engineering Faculty & IEEE Student Branch - Turkey

Fethi Sercan Aydın - Team Manager (2013 - 2016):

Özyeğin University - Student Life Office

Anton Rassolkin - Thesis Supervisor (2020 - 2021):

Tallinn University of Technology - Mechatronics Department

Mart Tamre - Programme Director, Academic Supervisor, Project Advisor (2018 - 2019):

Tallinn University of Technology - Mechatronics Department

Hamza Dere - Supervisor, Technical Manager (2017 - 2018):

Figes Engineering - Technical Training Department

Mert Mökükcü - Project Manager, Technical Manager (2018):

Sherpa Engineering - Santor Engineering

Edgar Dubbelman - Team Leader, Traineeship Manager (2019):

ABB - Software Engineering Department of Drives Center

Onur Serin - Team Leader, Internship Supervisor (2016):

Hexagon Studio - Electrical & Electronics Department