CURRICULUM VITAE

NAME SURNAME: ONUR OZGUR
DATE OF BIRTH: 29 February 1988
LOCATION: ANKARA\TURKEY
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Guidance, Dynamics and Control Engineer with a solid academic background acquired through an intensive multidisciplinary education and defense industry work experience for more than a decade

STATEMENT OF INTENTION

Pursuing a PhD program and earning a PhD degree for further academic opportunities, like post-docs and professorships etc. and/or various private company employments in future as well as broadening my already-high knowledge and skills in the intended area at a prestigious university surrounded by a new and exciting cultural diversity

INTERESTS

Missile guidance, flight control systems, flight mechanics, aerodynamics, mathematical modeling and simulation, 6-DOF flight simulation, tracking and filtering, estimation theory, kinematics, dynamics, control theory, optimal control, robust control, robotics

PERSONALITY TRAITS

Perfectionist, idealist, hardworking, dedicated, principled, disciplined, rigorous

EDUCATION

2006-2007 Middle East Technical University – Ankara\Turkey
       English Language Preparatory Program – School of Foreign Languages
       Advanced Level English Class
       English Proficiency Exam Score: 93/100
       Ranking the 4th out of around 1800 participants

2007-2011 Middle East Technical University – Ankara\Turkey
       Mechanical Engineering – Bachelor of Science, BSc
       Graduated with a CGPA of 3.67/4.00 (High Honors)
       High Honor status for each of 8 semesters in undergraduate program
       Graduation ranking the 6th out of around 185 undergraduate students

       Guidance, Dynamics and Control discipline related coursework:
       Calculus with Analytic Geometry
       Calculus of Functions of Several Variables
       Introduction to C Programming
       Introduction to Differential Equations
       Applied Math for Mechanical Engineers
       Numerical Methods
       Dynamics
       Control Systems
       Theory of Machines I & II
       Mechanical Vibrations
       System Dynamics

2011-2014 Middle East Technical University – Ankara\Turkey
Mechanical Engineering – Master of Science, MSc
Dynamics and Control Area

Master Thesis:
The Effects of Random Seeker Noise and Target Maneuver on Guidance Performance

Coursework:
Advanced Dynamics
Flexible Multibody Dynamics
Modern Control
Applied Optimal Control
Robust Control of Aerospace Systems
Estimation Theory
Analytical Methods in Engineering

2014-2017 Middle East Technical University – Ankara\Turkey
Electrical and Electronics Engineering, Philosophy of Doctorate, PhD
Control Theory and Robotics Area
Coursework completed

Coursework:
Linear Systems Theory I & II
Stability Theory of Dynamical Systems
Optimization
System Identification & Adaptive Control
Automatic Flight Control Systems
Introduction to Robotics
Applied Orbital Mechanics

WORK EXPERIENCE

2009   Oyak-Renault Automobile Factories – Bursa\Turkey
Manufacturing Engineering Intern – 1 month duration

2010   ASELSAN Microelectronics, Guidance and Electrooptics Business Sector – Ankara\Turkey
Research and Development Intern – 1 month duration

2010 – 2011 ASELSAN Radar, Electronic Warfare and Intelligence Business Sector – Ankara\Turkey
Candidate Engineer – 6 months duration

2011 – 2014 ASELSAN Radar, Electronic Warfare and Intelligence Business Sector – Ankara\Turkey
Mechanical Design Engineer

2014 – 2023 ASELSAN Microelectronics, Guidance and Electrooptics Business Sector – Ankara\Turkey
Guidance, Dynamics and Control Engineer
Earned titles:
Engineer (~2 years)
Engineering Specialist (~3 years)
Senior Engineering Specialist (~4 years)

PUBLICATIONS & PROJECTS

Maneuverable Target Tracking via Optimal LQR Controller with Time-Varying Riccati Feedback and Target State Estimations – AIAC 2021 Ankara International Aerospace Conference, September 2021

Planning and Tracking of Waypoint Guidance Routes via Dubins Path Technique and Implementation of the Method for use in Threat Avoidance Scenarios - SAVTEK Defense Technologies Conference, September 2016

Store Separation Analyses by means of Response Surface Modeling – AIAA 34th Applied Aerodynamics Conference, June 2016

The Effects of Random Seeker Noise and Target Maneuver on Guidance Performance, METU Mechanical Engineering MSc Thesis, September 2014

Cover Wright Adjustment System Design for Dishwashers – METU Mechanical Engineering Senior Year Project – Sponsored by Arçelik Inc., 2011

HONORS & REWARDS

Dean's High Honor List:
for all semesters of the METU Mechanical Engineering Undergraduate Program

Oyak-Renault Scholarship:
Outstanding Success Scholarship for METU Mechanical Engineering (BSc) Program

TUBITAK (The Scientific and Technological Research Council of Turkey) Scholarship:
Graduate (MSc) Scholarship for Domestic Students

TUBITAK (The Scientific and Technological Research Council of Turkey) Scholarship:
Graduate (PhD) Scholarship for Domestic Students

SOFTWARE SKILLS

Matlab, Simulink, MathCad, Mathematica, ModeFrontier, Microsoft Office, NX, Teamcenter, C

FOREIGN LANGUAGES

English – Advanced Level
        Fluent in writing and speaking

French – Intermediate Level
        French courses taken for 2.5 years within the scope of Oyak-Renault Scholarship

German – Intermediate Level
         3 German courses taken as non-technical electives undergraduate studies

SPARE TIME ACTIVITIES

Movies, Books, Music and Sports