**CURRICULUM VITAE**



NAME SURNAME: ONUR OZGUR

DATE OF BIRTH: 29 February 1988

LOCATION: ANKARA\TURKEY

CONTACT INFO: Via E-Mail onurozgur88@gmail.com

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