

ABDULLAH UNAL

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Tevfik İleri Mah. M. Fevzi Çakmak Cad.
Kızılırmak Sok. Göksel Sit. B Blok No:23 06145
Pursaklar, Ankara, Turkey

EDUCATION

Istanbul Technical University

Master of Machine Dynamics, Vibration and Acoustics Program

Master thesis: Alternative approach for the derivation of an eigenvalue problem for a Bernoulli-Euler Beam carrying multiple in-span elastic rods with a tip-mounted mass.

Istanbul
09.2013 – 06.2016
3.63/4.00

Istanbul Technical University

Bachelor of Engineering Degree in Mechanical Engineering

Senior thesis: Moving body design and control for humanoid robot

Istanbul
09.2008 – 06.2013
3.02/4.00

EXPERIENCE

ITU Mechatronics Education and Research Center

Modeling and Control of Staubli RX-160 Industrial Robot

- Write and code forward and inverse kinematics of the robot
- Trajectory planning for the robot to execute a given task
- Generate and code motion trajectories

Istanbul
09.2014 – 01.2015

ITU Prof. Dr. Nimet Ozdas Automatic Control Laboratory

TUBITAK 2241-A – Senior Thesis Project Student

- Active degrees of freedom designed for body for the humanoid robot which have been started to studying in our faculty
- The body's weight and height were intended to be compatible with design of humanoid robot
- Geometric and kinematic modeling were made for electrically driven housing and mechanical design was made with the system's dimensions
- Moving body prototype was manufactured and controlled

Istanbul
09.2012 – 06.2013

General Directorate of Highways

Intern

- Staged in Snowplow Blade and Relay Tank manufacturing processes
- Information was obtained about manufacturing methods, materials used etc.

Ankara
08.2012 – 09.2012

TRT General Directorate -Thermic Center

Ankara
08.2011 – 09.2011

Intern

- Taken part in heating and refrigeration works of all departments within the General Directorate

ITU Faculty of Mechanical Engineering - Machine Shop

Istanbul
06.2010 – 07.2010

Intern

- Used the conventional machining tool
- Done the different welding methods
- Manufactured the component with casting
- Used and read the mechanical measurement equipment

FOREIGN LANGUAGES

English **Good (YDS:77.5)**

SKILLS

Courses

- Modal Testing
- Data Acquisition and Signal Processing
- Advanced Mechanical Vibrations
- Dynamics of Mechanical Systems
- Modern Control Engineering
- Experimental Robot Modelling and Control
- Optimization Methods

Software

- MATLAB / Simulink
- SolidWorks
- AutoCAD
- ANSYS/Workbench
- LaTeX
- Microsoft Office

ORGANIZATIONS

MEB-JICA 7. International Robotics Competition

Istanbul
05.2013 – 05.2013

Referee

5. World Youth Congress

Istanbul
06.2010 – 08.2010

Participant and Volunteer

Istanbul 2010–European Capital of Culture Volunteer Program

Istanbul
08.2009 – 12.2010

Volunteer

CLUB/ASSOCIATION MEMBERSHIPS

Membership Chamber of Mechanical Engineers

HOBBIES

Voluntariness 7. International Robotics Competition, 5. World Youth Congress, Istanbul 2010-European Capital of Culture Volunteer Program etc.

Football Elementary and High School Football Team

Travel Many cities within Turkey, Syria, Lebanon and Jordan

REFERENCE

References can be supplied, if required.