

URAL H. ERDAMAR

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EDUCATION:

B.S., Electrical and Electronics Engineering

Ankara, Turkey

Bilkent University

2009-Dec 2018

Degree December 2018

Relevant Coursework: Electrical and Electronics Engineering Design, Feedback Control Systems, Statistical Learning and Data Analytics, Microprocessors, Circuit Theory, Probability and Statistics

High School

Ankara,
Turkey

Middle East Technical
University College

2005-2009

EXPERIENCE:

Work Experience:

2019-Present

- Hanay & Bulut Consultancy and Law Firm:
Served as a consultant and partner about all automation Aeroponic farm system construction. Achieved to increase crops yield efficiency by fourfold yearly with decreasing the water consumption by %95 percent with respect to traditional farming applications.

2018

- SolarGuc Project and Construction Company: Served as project engineer, designed 18MW solar energy power plant, negotiated purchasing technical equipment and components required for the projects, worked in the field as being responsible for twenty technical and construction workers.

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2018

Internships:

- SolarGuc Project and Construction Company: Learned how to design projects in AutoCAD and analyze panel systems with PVSYST program and listing the component requirements accordingly with using Excel.
- ONE Construction Company: Analyzed building grounding systems, how it worked and designed a grounding system for given construction project with a hands-on experience.

Course Projects

2009-2018

- Fit multi-axis solar tracking solar panel with IOT functionality using custom-built circuitry and Raspberry Pi interface.
- Trained a voice recognition system using neural network on a Basys3 board.
- Completed independent data and statistics project to explore the potential of Bitcoin price forecasting using regularized regression and MLP neural networks.
- Exposure to principles of feedback control systems including DC motor system identification and frequency response. • Built EM-coil gun.
- Designed a TRC-10 transmitter with 10m range and uses amateur bandwidth.
- Programmed a basis board using Xilinx which can measure the room temperature and output in 7segment digital display.
- Integrated Intel 8051 microprocessor into several embedded language projects
- Coded and debugged a Java strategy game called Alien Run that uses artificial intelligence based on recursion in addition to a Galactic Shooter game which changes level of difficulty as wind, gravity and random target locations vary.
- Developed a timer-based Java mail sorter. Also, created an automated personal Java calendar based on optimal storage.

NASA Jet Propulsion Lab Annual Invention Challenge in Turkey (1st Place)

2008

Engineered the fastest aerial car that can travel on a tense steel wire track.

High School Science Fair (1st Place)

2007-2008

- Illustrated the increase in sea pressure by depth and its devastating effects on shapes of objects.
- Demonstrated how the airplane wings work and analyzed its effect on fuel efficiency.

Tubitak Projects (Turkish Scientific and Technological Research Council)

2006-2007

- Modeled an eco-friendly car using magnetic field in tier mechanism that uses changes in polarity as break system, consumes only electrical energy and switches between 2-4 wheel ride for optimum performance, in four wheel mode it also has 360° portability.
- Constructed an electric generator using evaporated water flow under the earth's crust.

Aerodynamics Project

2006

Constructed two wind tunnels with motors attached. Built scaled wings with various surface areas and proved wings with higher surface area flew higher vs. smaller surface area stayed lower.

SKILLS/INTERESTS:

Technology: Highly experienced in AutoCad, Xilinx, Basys3, VHDL, Assembly, Java, Matlab, C++, Raspberry Pi, Proficient in Excel, Word and PowerPoint.

Language: Fluent in English and Turkish, basic German.

Activities: Technological agriculture researcher, volunteer coach at Afyon Kocatepe University american football team, judo, go, chess, woodworking.

U.S. Citizen, authorized to work in the United States and security clearance applicable.

Republic of Turkey Blue Card holder, authorized to live and work in Turkey indefinitely.