

o g u z h a n d o g r u

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// about me

Witnessing machines making intelligent decisions fascinates me. I have a track record in process control, machine learning, and data science. I'm working on some of my faculty's most innovative and challenging projects. I developed cutting-edge products for our MNC partners in the energy, process automation, and manufacturing sectors. I've worked for the biggest oil company in Turkey, reporting to C-level executives. Leading project teams under pressure granted me excellent communication and process optimization skills. I'm looking to sharpen my skills in a fast-paced, multicultural and energetic organization.

Skills: Python, Matlab, Simulink, Tableau, Chemcad, Maple, Polymath, COMSOL, Minitab, GAMS, Cplex.

Frameworks: Tensorflow, Pytorch, Scikit-learn, OpenCV, Scipy, Gym, ASPEN Plus, HYSYS, FSA

// experience

Research Assistant

Sept. 2018 - Present

University of Alberta | Edmonton, Canada

- Developed AI and control tools for MNCs: Cenovus, Emerson, Exxon, Shell, Suncor, Syncrude, Teck Metals, etc.
- Designed ML models for state estimation & process control utilizing computer vision, and reinforcement learning.
- Built and managed process control teams, hiring and training co-op students for NSERC, Alliance & COSIA projects.

Research and Development Engineer

Jul. 2017 - Jul. 2018

TUPRAS | Kocaeli, Turkey

- Modeled gas treatment plants to improve production efficiency, reducing carbon footprint and operational costs.
- Trained process engineers and operating personnel on hazardous gas treatment plants.
- Examined & improved various downstream plants with abnormalities using Kaizen methodology & HAZOP.

Intern

Jul. 2016 - Sept. 2016

Technical University of Cologne | Köln, Germany

- Researched physical & chemical properties of PET utilizing various instruments to analyze recycling efficiency.

// education

Ph.D. in Process Control, Chemical Engineering | University of Alberta

Sept. 2018 - Dec. 2022

Awarded Captain Thomas Farrell Greenhalgh Memorial Scholarship for academic excellence in chemical engineering.

B.Sc. in Chemical Engineering | Hacettepe University

Sept. 2012 - Jun. 2017

Prof. Dr. Abdurrahman Tanyolac Award for designing innovative & eco-friendly ethylene glycol and paper production plants.