

oguzhan dogru

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// about me

I have a track record in process control, machine learning, and data science. I've worked for the biggest oil company in Turkey, reporting to C-level execs periodically. Currently, 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. Leading project teams granted me excellent communication, operational excellence, and process optimization skills. Combined with my ability to work under pressure, it has made me a well-rounded project manager. I'm looking forward to sharpening my skills in a fast-paced, and energetic organization.

keywords | Python (Tensorflow, Pytorch, Scikit-learn, OpenCV, Scipy), Matlab, Simulink, Tableau, Chemcad, Maple, Polymath, COMSOL, ALOHA, Minitab, ASPEN (Plus, HYSYS, FSA), GAMS, Cplex

// 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

Expected Aug. 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.