

# oguzhan dogru

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## // about me

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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.

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

## // experience

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### 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

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**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.*