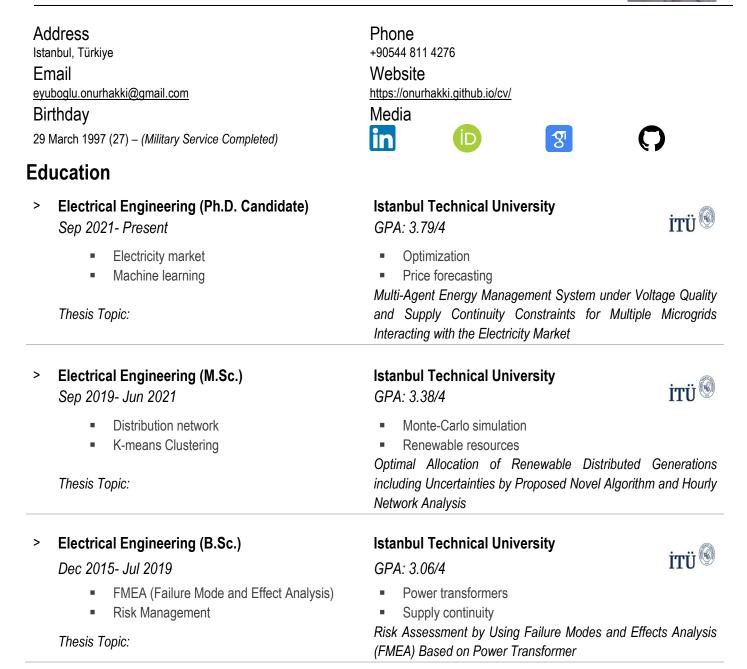
ONUR HAKKI EYÜBOĞLU

Electricity Market Settlement Specialist

- Electrical Engineer (Ph.D. Candidate)





Working Experience

- > Electricity Market Settlement Specialist March 2024- Present
- > Electricity Market Settlement Assistant Specialist Jan 2023- March 2024 Role and Responsibilities:

EXIST (Energy Exchange Istanbul) Registration and Settlement Department EXIST (Energy Exchange Istanbul) Registration and Settlement Department

- Following the settlement process, preparing monthly reports and specialized reports,
- Calculation of payables and receivables originating from the day ahead market, intra-day market, balancing
 power market activities, renewable energy support mechanism and energy imbalances,
- Informing market participants about settlement process,

Key Accomplishments:

- Built a Python desktop applications (Tkinter) for controlling both Retroactive Adjustments (GDDK) and unlicensed power generation/renumeration (LÜYTOB) processes,
- Built multiple Python web-based reports (streamlit) including UEVM, KÜPST, imbalance settlement and more,
- Built a mail automation for calculating exempted advance amount and notifying participant about amount and due date on daily basis,
- Built a several Python Scripts-Notebooks-Apps and Excel Macros in order to reduce manual efforts.
- Created a Python library for EPYS and Transparency platform.

Technical Skills & Tools: Python, Excel VBA, MS Office

> Research Assistant

Istanbul Technical University Electrical Engineering Department

Dec 2019- Jan 2023

Role and Responsibilities:

- Conducting experiments Electric Distribution Automation Laboratory | Lighting Tech. & Photometry Laboratory,
- Preparing & assessing course materials Electrical Power Quality & Harmonics | Engineering & Project Management | Electrical Engineering Project etc.,
- Assisting courses Introduction to Programming Language (Python, C#),
- Consulting to M.Sc. and B.Sc. students.

Key Accomplishments:

- Published 5 research paper in several subjects such as distribution networks, energy management, metaheuristic algorithms, mixed linear programing, optimization, renewables resources, risk management, smart grid etc.,
- Used algorithms: FMEA, K-Means Clustering, MILP, Monte Carlo Simulation, Particle Swarm Optimization (PSO),
- Citation (All: 39) | (Scopus: 27)

Technical Skills & Tools: Python, OpenDSS, Gurobi, MATLAB&Simulink

> Engineer Intern

June 2019- August 2019 Role and Responsibilities:

- Controlling supply continuity indices (SAIDI, SAIFI)
- Maintenance of distribution network

> Engineer Intern

June 2018- August 2018

Role and Responsibilities:

- Distribution transformer components (bushing, windings, core etc.)
- Physical and electrical tests (Oil test, turns ratio test, resistance test etc.)

Personal Skills

> Mother tongue	Turkish				
> Other language	Understanding		Speaking		Writing
English	Listening C1 Levels: A1/2: Basic	Reading C2 user - B1/2: Ind	Spoken Interaction C1 ependent user - C1/2 Prof	Spoken production C1 icient user	C2
 Communication skills 	Good pCooper	communicatio resentation sk ative and tean t giving feedba	ills n player		
 Organizational skills 	 Managing time effectively Prioritizing tasks and setting goals Highly organized 				
> Job-related skills	DocumeResearce	e-thinking enting	5		
> Computer skills	 Python GUI (Python streamlit - Tk Gurobi – Optimization (PS Postman - Web service A VBA Microsoft – Reducing HTML-CSS-Javascript - V MATLAB&Simulink - Power OpenDSS - Power System Microsoft Office[™] tools – 		n (PSO-MILP) ce Applications ucing Manual Efforts ot - Website Power System Simula vstem Simulations	tions	

ABB

Quality Control Department

Publications

>	Title: Authors: Keywords: Publication: Year:	Energy Management between Zones of Smart Multi-Microgrid System with Renewable Generation to Increase Grid Resilience <i>Berk Dirmilli, Onur Hakkı Eyüboğlu, Ömer Gül</i> Energy management, Microgrid, Resilience, Renewables IEEE - 2022 4th Global Power, Energy and Communication Conference (GPECOM) <i>June 2022</i>
>	Title: Authors: Keywords: Publication: Year:	Optimal Allocation of Multiple Distributed Generations including Uncertainties in Distribution Networks by k-Means Clustering and Particle Swarm Optimization Algorithms <i>Onur Hakkı Eyüboğlu & Ömer Gül</i> Distributed power generation, improving voltage profile, k-Means clustering, particle-swarm optimization (PSO), power loss reduction Renewable Energy and Power Quality Journal (RE&PQJ) <i>September 2021</i>
>	Title: Authors: Keywords: Publication: Year:	Monte Carlo Simulation of Electric Vehicle Loads Respect to Return Home from Work and Impacts to The Low Voltage Side of Distribution Network <i>Önder Polat, Onur Hakkı Eyüboğlu & Ömer Gül</i> Distribution network, Electrical vehicles, EV impacts, Load flow analysis, Monte Carlo simulation Springer – Electrical Engineering <i>February 2021</i>
>	Title: Authors: Keywords: Publication: Year:	Risk Assessment by Using Failure Modes and Effects Analysis (FMEA) Based on Power Transformer Aging for Maintenance and Replacement Decision <i>Onur Hakkı Eyüboğlu, Burak Dindar & Ömer Gül</i> failure causes, Failure Modes and Effects Analysis, FMEA, power transformers, risk assessment IEEE - 2020 2nd Global Power, Energy and Communication Conference (GPECOM) <i>November 2020</i>
>	Title: Authors: Keywords: Publication: Year:	Series Resonance Type Fault Current Limiter for Fault Current Limitation and Voltage Sag Mitigation in Electrical Distribution Network <i>Onur Hakkı Eyüboğlu, Burak Dindar & Ömer Gül</i> distribution network, fault current limiter, series resonance, short-circuit current, voltage sag IEEE - 2020 2nd Global Power, Energy and Communication Conference (GPECOM) <i>November 2020</i>

Rewards

>	Data Science	Datathon2022@metustatclub – TÜPRAŞ (1st place)

- > Data Science EnerjiSA Datathon (1st place)
- > Data Science Borusan Otomotiv Datathon (6th place)

Projects

>	EXIST API	https://github.com/onurhakki/exist
>	Imbalance Settlement	https://dengesizlik-hesaplama.streamlit.app/
>	Turkey Power Plants	https://onurhakki.github.io/Turkey-Electricity-Power-Generation/
>	Plotting Harmonics	https://onurhakki.github.io/harmonics
>	Follow for more	https://www.linkedin.com/in/onurhakki