YUSIF SHKHIYEV

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SUMMARY

I am undergraduate power engineering student with high academic performance and a record of productivity. Hands-on experience in industrial power, electrical and instrumentation systems. Experienced in analyzing and optimizing power systems using simulation tools such as MATLAB/Simulink and TRNSYS. The founder of two successful startups in energy innovation. Active in research, I am currently working on articles on advanced energy production methods. I have also managed various STEM programs.

SKILLS

Power system analysis and design
MATLAB / SIMULINK
Solar Energy Heating Systems
TRNSYS / Simulation Studio
IOT-based control systems
AutoCAD Electrical desing
Motor Electrodynamics
Analize-Research Skills
Inverter-Converter Systems

PROFESSIONAL EXPERIENCE

Power Engineering Intern, OJSC AZERENERJI I Thermal Power Plant , Azerbaijan **Feb 2026 - present**

- Monitored and controlled real-time **operational parameters** (steam pressure, turbine load, generator output) in the **central control room** using **SCADA systems**.
- Assisted in troubleshooting and responding to real operational faults in the **turbine hall**, supporting engineers during equipment **malfunction diagnostics** and on-site corrective actions.
- Executed tasks assigned by the supervising engineering team, including **data collection**, operational reporting, and contributing to basic **problem-solving** and technical decision-making processes.

Project Electrican, PJSC GAZPROM I Svabodnyy City, Amur Oblast, Russia **June 2024 - Oct 2024**

- Laying of cable tracks and cable ducts, installation of **power** and **signal** cables, installation of electrical devices, connection works, installation of low-current devices, installation of **emergency** and **work lighting systems** and their electric lamp posts, **telecon**, air and gas systems works.
- Laying cables according to the **cable log**, locating and mounting electrical devices using **hook-ups**.
- Montage of **heating** and **control** panels, montage of **ncc panels**, panels of cabinets **feeding motors**.
- Montage of transformers in the transformer building and insulation of their cables on pipes.

President of The Commition, Society of Physics Students Azerbaijan **Sep 2023 - present**

Chairman of The Management Board ASOIU Student Youth Organzation **Oct 2023 - present**

EDUCATION

Bachelor of Power Engineering, Azerbaijan State Oil and Industry University **Sep 2022 - present**

GPA: 81,7 [SABAH Groups]

Field of Technical and Economic Sciences, State Gymnasium School **Sep 2011 - June 2022**

PROGRAMS

Master Technology Transfer Program - TECHNIP ENERGIES **Feb 2026 - present**

- Analyzed **LNG** and **FLNG systems**, including gas processing, liquefaction principles, and monetization.
- Studied **hydrogen value chain technologies** (grey/blue/green H_2) and **CCUS-based decarbonization strategies** for electrical energy systems.
- Applied fundamentals of **instrumentation** and **process automation** in industrial plant design contexts.
- Evaluated **sustainable fuels** and **petrochemical processes**, including biofuels, ethylene production, and circular economy integration.

Startup Training Program - Digital Development and Innovation Center **Apr 2024 - June 2024**

- Participated in a structured startup program, contributing to **project development** and validation of innovative project ideas through **market research** and feasibility analysis.
- Collaborated with a multidisciplinary team to design a **business model**, including **value proposition** development and basic **financial planning**.
- Presented project **outcomes** and progress **reports**, enhancing communication, **teamwork**, and problem-solving skills in a startup environment.

CERTIFICATIONS

- **Russian language certificate (2024 - 2027) -** Far Eastern Federal University
- **License to work with electrical devices up to 1000V** - PJSC GAZPROM
- **"Risk assessment in energy resources" course** - Azerbaijan Engineers Union
- **"Civil defense and emergency fraing" course** - PETON HSE Group
- **Electrical Power Distribution course** - L&T Learn and Teach Edu-Tech
- "**Electric Power Systems"course** - UNIVERSITY at BUFFALO
- **"Startup Training" program** - Digital Development Innovation Center
- **"Green future Bridging Borders Program" course** - Society of Petroleum Engineers
- **“Engineering design of renewable energy projects” -** Azerbaijan Engineers Union

LANGUAGE SKILLS

- **Azerbaijani** - (Fluent)
- **Russian** - B1 (Intermediate)
- **English** - C1 (Advanced)
- **Turkish** - C1 (Advanced)
- **German** - B1 (Intermediate)

PROJECTS

"AGRO-SOLAR" Startup - Sustainable heating of greenhouses with renewable energy by utilizing solar collector systems. The idea both increases efficiency and protects the environment.

“GREEN-LINE" Startup - Creation of renewable energy integrated rooftop gardens on building roofs which their energy requirements are met by taking into account the energy losses created by the apartments.

VOLUNTEERING

- **SABAH.HUB Innovation Center**
- **DAVAM YOUTH MOVEMENT**
- **ONE-VOLUNTEER Student Cooperation Organization**
- **Azerbaijan Student Youth Organization Union**
- **Education Development Fund**
- **Ministry of Science and Education of the Republic of Azerbaijan**

SCHOOLARSHIPS

Merit-Based Scholarship
Azerbaijan State Oil and Industry University

SABAH Program Scholarship
Ministry of Science and Education of the Republic of Azerbaijan

SOCIAL ACTIVITY

Founder, “Cinema Club” Social University Club - Two full terms in the Presidency

Events, Expanded organization membership to **1200** active members, organized **150+** multi-social and skill-building events. Successfully led a series of inter-university student camps and engineering forums.