



# Bourama DJONFAGA

bdjonfaga@gmail.com

+90 552 548 75 80

Ankara, Turkiye

Mali

June 2000

Energy Systems Engineering

Accomplished Energy Systems Engineer and current Gazi University graduate student specializing in renewable energy, solar, and hydrogen systems. Hands-on experience designing and installing solar power plants. Served as a researcher for a TÜBİTAK-funded solar cell material project. Proficient in MATLAB, SolidWorks, Fusion 360, and Python etc. Demonstrated creativity and teamwork through participation in the TEKNOFEST Electric Car Challenge. An autonomous, multilingual engineer committed to advancing the renewable energy sector.

## EDUCATION

### Master Of Science (1 & 2)

Energy Systems Engineering August 2024 – Present  
Gazi University 3.81/4 Ankara, Turkiye

### Bachelor's Degree

Energy Systems Engineering October 2020 – August 2024  
Necmettin Erbakan University 3.39/4 Konya, Turkiye  
*Graduated with Honors*

## AWARDS AND HONORS

### Full Scholarship – Master's Degree

Government of Turkey (Turkiye Bursları) August 2024 – Present  
Award Criteria: Academic Excellence

### Full Scholarship – Bachelor's Degree

Government of Turkey (Turkiye Bursları) October 2020 – August 2024  
Award Criteria: Academic Excellence

## PROFESSIONAL EXPERIENCE / INTERNSHIPS

### Researcher

Science and Technology Research Center (NEU BITAM) October 2023 – October 2024  
I served as a researcher on the TÜBİTAK project titled “Development of Aluminum Paste for Back Surface Contact of Solar Cells” where we formulated and tested various pastes composed of different material combinations, including silver and aluminum.

### HVAC Systems Intern Engineer

Teksan Sogutma July 2024 – August 2024  
We contributed to the design and commissioning of HVAC systems and cold rooms.

### Solar Design and Installation Intern

Neva Solar Inc. July 2023 – August 2023  
We designed and installed solar power plants, on-grid, off-grid and solar streetlight, gaining hands-on experience in system optimization, AutoCAD, and SolidWorks.

## EXTRA-CURRICULAR ACTIVITIES

|   |  |                                     |
|---|--|-------------------------------------|
|  School Team Member   |  |                                     |
| <b>Y-GT TEKNOFEST Electric Car Challenge</b>  |  | <i>November 2022 – October 2024</i> |
| <b>Electric Vehicle Design Engineer</b>   |  |                                     |
| Our team designed, modelled and built an electric car and participated in the national TEKNOFEST Electric Vehicle Competition.  |  |                                     |
|  Association Member   |  |                                     |
| • <b>Iki Dogu Iki Bati</b> — International Student Association  |  | <i>January 2022 – August 2024</i>   |
| Activities: Reading selected books and participating in group discussions.  |  |                                     |
| • <b>Malian Students Association in Turkiye</b>   |  | <i>October 2019 – Present</i>       |
| Variety of activities, including cultural and educational events, and assisting newcomers.  |  |                                     |
|  <b>Volunteer Instructor:</b> Guide students in language learning and applying new technologies, including AI, to enhance self-directed learning. |  |                                     |

## COURSES & CERTIFICATIONS

- 2024 Teknofest Success Certification
- MATLAB & Simulink (MathWorks)
- KOSGB Entrepreneurship Training
- Python from zero to advanced (Udemy)
- International Student Academy
- Design of Solar Energy Systems (Udemy)
- Gemini Certified Student
- Microsoft 365

## LANGUAGE

- French: Native
- English: Level C1
- Turkish: Level C1
- Bambara: Native
- Spanish: Level B1
- Arabic: Level A2

## SKILL

- MATLAB & Simulink
- SolidWorks
- Python
- Fusion 360 & AutoCAD
- SAM (System Advisor Model)
- EES (Engineering Equation Solver)
- ZetaCAD, PvSyst, Sunny Design
- Linux CLI & VASP
- Team Spirit
- Perseverance
- Autonomous
- Creativity

## PROJECT

- TÜBİTAK 122M311: Development of an Environmentally Friendly Aluminum Paste for the Back Surface Contact of PERC, TOPCON & IBC Solar Cells.
- Obstacle-Avoiding Robot (SolidWorks, Arduino, MATLAB)
- 5 MW Solar Power Plant Design and Simulation (AutoCAD, SAM)
- 10 kW Rooftop Solar Energy (**On-Grid**) Design and Simulation (AutoCAD, SAM)
- 10 kW Rooftop Solar Energy (**Off-Grid**) Design and Simulation (AutoCAD, SAM)
- Natural Gas System Installation (ZetaCAD)
- Building Energy Audit
- Solar Power Plant Design and Analysis (PvSyst)