

Yağız BALUN

BSc in Mechanical Engineering Dokuz Eylül University, Türkiye Graduated: 2026
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Technical Portfolio is included in additional documents.

MOTORSPORT & RACING EXPERIENCE

2023 - 2025 | Stage Safety Officer & Stage Marshal – Turkish Rally/HillClimb Championship

- **Stage Safety Officer:** Buharkent HillClimb (2025)
- **Stage Marshal:** Turkish Rally Championship: Aegean Marmaris Rally(2023, 2024, 2025)

2025 | Alumni & Technical Advisor of Solaris – Albi Eco Race (**Circuit d'Albi, France**)

2024 | Scrutineer - iLumen European Solar Challenge (**Circuit Zolder, Belgium**)

2022 | Mechanical Team Leader of Solaris - iLumen European Solar Challenge

2022 | Mechanical Team Leader of Solaris - Italian Solar Challenge (**Autodromo Imola, Italy**)

PROJECTS

2025 | S14 Solar Car Suspension and Vehicle Dynamics R&D

2025 | Finite Element Analysis of a Truss Structure

2024 | Steward Platform Design and Manufacturing (BSc Senior Project)

2024 | Suspension Redesign and FEA Validation

2023 | Wheel Hub Design and Efficiency Test Rig Development

PROFESSIONAL EXPERIENCE

2022 - 2023 | Mechanical Engineer – **Johnson Electric (Formerly known as Stackpole International)**

2024&2025 | Machining - R&D Intern - **Gera Crane**

2023 | Casting Intern - **Özen Casting**

ACADEMIC RESEARCH

Under Review | Experimental Validation of Service Life Prediction of Ball Bearings in Solar Radial Flux Hub Motors Using Real-Time Track Data

Manuscript in Progress | Dynamic Load Validation of Solar Electric Vehicle Suspensions Using In-Race Telemetry

SOFTWARE & TECHNICAL SKILLS

CAD & Analysis: SolidWorks, Catia V5, ANSYS Workbench Modules, Granta, Adams View/Car, OptimumLap, Simulink, Simscape, SKF SimPro Quick

Programming: MATLAB, Python

Office Tools: MS Office

NOTABLE COURSES & CERTIFICATES

Certificates: SOLIDWORKS CAD Design/Simulation Associate (**CSWA and CSWA-S**), TOSFED Grade C Observer License,

Courses: Hybrid and Electric Vehicle Technology, Introduction to Finite Elements, Internal Combustion Engines,

Composites Manufacturing Technology, Fuels and Combustion, Basic Principles of Motor Vehicles

RECOMMENDATIONS

Assoc. Prof. Dr. Aytaç Gören | Dep. of Mechanical Eng. DEU, Project Manager of Solaris | aytac.goren@deu.edu.tr

Assoc. Prof. Dr. Mustafa Karaoğlan | Dep. of Mechanical Eng. DEU, Automotive Division | mustafa.karaoglan@deu.edu.tr

M. Serkan Inceer | Maintenance Supervisor at Johnson Electric | sinceer@johnsonelectric.com