

Seyit Kubilay ULUÇAY

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Education

Özyegin University, B.Sc. in Electrical and Electronics Engineering – Istanbul, TURKEY	2021 – 2025
• Cumulative GPA: 2.97 / 4.00	
• Honors: 50% Performance Scholarship	
Uğur College High School, High School Diploma – Kocaeli, TURKEY	2017 – 2021
• Grade: 94.10 / 100.00	

Experience

Jr. Test Engineer, Accenture – Istanbul, TURKEY	Janurary 2026 – Present
• Joined to Accenture as Jr. Test Engineer in Industry X team.	
Intern, R&D Department, BEKO R&D Advanced Sensor Technologies – Istanbul, TURKEY	July 2024 – Aug 2024
• Collaborated within a R&D team to develop and test a patented floor detection system, gaining experience in corporate R&D processes.	
• Focused on implementing sensor-based power management to optimize cleaning performance, performing data analysis to validate results.	
• Integrated and tested advanced sensors for a newly patented floor detection system, conducted data analysis, and created documentation.	
Undergraduate Assistant, Özyegin University, Faculty of Engineering – Istanbul, TURKEY	Mar 2023 – June 2023
• Provided hands-on hardware support for an Autonomous Driving course, assisting students with NVIDIA Jetson Nano based vehicle conversions.	
• Led teams in assembling and troubleshooting hardware systems, facilitating practical learning and complex problem-solving.	
Part-timer, Student, Özyegin University, Student Services – Istanbul, TURKEY	June 2023 – Sep 2023
• Assisted students with inquiries regarding transfers, minor/major applications, and enrollment processes.	
• Developed and implemented a Microsoft Power Automate workflow for course assignments, reducing manual processing time by approximately 50%.	

Projects

Battery Health & Performance Management: Senior Project	STM32, KiCad, MATLAB/Simulink
• Co-designed, developed, and fabricated a complete instrumentation system for real-time monitoring of Li-ion batteries.	
• Implemented a novel active cell balancing algorithm, utilizing an STM32F407 Discovery Board, with validation confirmed through extensive MATLAB/Simulink simulations.	
• Interpreted electrical wiring diagrams using KiCad to create a custom PCB, and performed troubleshooting on the prototype.	
• Integrated INA333 instrumentation amplifiers and TMP36GZ sensors, performing calibration and data analysis to ensure system accuracy.	
Remote-Controlled Axial Flux Motor	Arduino, NRF24, ESC, 3D Printing, PCB
• Co-designed, built, and tested a custom electric-powered axial flux motor (including hand-wiring coils) as part of a two-person project team.	
• Implemented a custom remote controller using NRF24 wireless modules for system operation.	
Wind Turbine Grid Integration Analysis	PowerWorld Simulator
• Performed data analysis on the impact and cost-effectiveness of different wiring configurations for grid integration of wind turbines.	
• Utilized PowerWorld for pre-defined detailed system modeling, analysis, optimization, and documentation.	
PLC Automation Systems	Schneider EcoStruxure Control Expert
• Co-developed and programmed automation logic for a simulated traffic light system to reduce waiting time optimally and created a functional toy claw machine.	
• Gained practical experience in PLC programming, ladder logic, and industrial automation concepts.	

