

# DERIN DURAK

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Mailing Address  
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## EDUCATION

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**BS**     The Ohio State University, Electrical and Computer Engineering     May 2026

## RELEVANT EXPERIENCE

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**AgriBots Agricultural Technologies Team**, Teknofest Competition     Mar. – Sep. 2020  
**Team Captain and Head of Electronics**, [agribots.calpardo.com](http://agribots.calpardo.com)

- Designed a UAV named AgriFLY for water and fertilizer management, liquid pesticide applications, and crop health monitoring using Autodesk Fusion360
- Designed a website to present AgriFLY to prospective sponsors

**Alpgen Robotics**, Ankara, Turkey     Aug. – Sep. 2021  
**Internship**

- Designed a Printed Circuit Board and schematics for a 2-channel relay module using Autodesk EAGLE

**Nesibe Aydin Model United Nations (NAMUN)**     Jun. 2020 – Dec. 2021  
**Head of IT**

- Designed and developed a website using HTML, CSS, and JS programming languages
- Managed the online event with 6 committees and more than 600 participants for 3 days

**Petty-NOX Underwater Robotics Team**, Teknofest Competition     Apr. – Aug. 2021  
**Head of Electronics and Programming**

- Programmed two STM32 and Atmega328P based development boards using STM32CubeIDE and Visual Studio Code in C++

**IB Overflow Forum**, [iboverflow.com](http://iboverflow.com)     Jun. 2021 – Present  
**Founder**

- Founded and developed an independent forum of International Baccalaureate students, teachers, and alumni

**FIRST Robotics Alumni at Ohio State**, The Ohio State University     Sep. 2022 - Present  
• Vice President and First Lego League Coordinator

**Buckeye AutoDrive Team**, The Ohio State University     Sep. 2022 – Present  
**CAN Bus Team Member**

- Encoding and decoding CAN bus messages using Python

## AWARDS AND INVOLVEMENT

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**Robotum Robotics Team**, robotum.net, Ankara, Turkey 2016 - 2021

- FIRST Lego League 2016, Team member and robot operator, Ankara, Turkey (Programming Award)
- World Robot Olympiad 2017, Team member, Izmir, Turkey (**National 1<sup>st</sup> Prize**)
- World Robot Olympiad 2017, Team member, San Jose, Costa Rica (**International 13<sup>th</sup> Prize**)
- FIRST Lego League 2017, Team member and robot operator, Ankara, Turkey
- World Robot Olympiad 2018, Team member, Izmir, Turkey (**National 3<sup>rd</sup> Prize**)
- FIRST Lego League 2018, Team member and robot operator, Ankara, Turkey
- World Adolescent Robotics Contest 2019, Team Member, Chongqing, China (**International 3<sup>rd</sup> Prize**)
- Virtual World Robot Olympiad 2019, Team Member (**International 1<sup>st</sup> Prize**)
- First Robotics Competition 2020 Robot Operator and Head of Electronics, Ankara, Turkey (**Safety Award**)
- First Robotics Competition 2021 Robot Operator and Head of Electronics, Ankara, Turkey (**Game Design Challenge Award**)
- Gave online course to First Lego League participants in virtual robotics design and simulation using stud.io software

**Global Social Leaders Competition**, globalsocialleaders.com 2020 – 2021

- ‘Edustotles’ team member, Quality of Education Theme (**2020 Semifinalist and Learning Award**)
- ‘The Signers’ team member, Reduced Inequalities Theme, built two applications for hearing-impaired people and people who don’t know sign language using HTML, JavaScript; Python, OpenCV2, and machine learning (**2021 Semifinalist and Resilience Award**)

## TECHNICAL SKILLS

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**Programming Languages:** Java, JavaScript, CSS, HTML, PHP, Python, C++

**Programming Tools:** GitHub, Arduino IDE, Visual Studio Code

**Software:** Autodesk Fusion 360, Autodesk EAGLE, Adobe Photoshop, Wondershare Filmora

## HOBBIES AND INTERESTS

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Performance Tennis, Aerial Photography, Personal Projects