

DERIN DURAK

Phone: (614) 961-5464
durak.3@osu.edu
calpardo.com

Mailing Address
184 W 11th Ave, Columbus, OH 43210

EDUCATION

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

RELEVANT EXPERIENCE

AgriBots Agricultural Technologies Team, Teknofest Competition Mar. – Sep. 2020
Team Captain and Head of Electronics, 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 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

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 1st Prize**)
- World Robot Olympiad 2017, Team member, San Jose, Costa Rica (**International 13th Prize**)
- FIRST Lego League 2017, Team member and robot operator, Ankara, Turkey
- World Robot Olympiad 2018, Team member, Izmir, Turkey (**National 3rd Prize**)
- FIRST Lego League 2018, Team member and robot operator, Ankara, Turkey
- World Adolescent Robotics Contest 2019, Team Member, Chongqing, China (**International 3rd Prize**)
- Virtual World Robot Olympiad 2019, Team Member (**International 1st 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

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

Performance Tennis, Electric Guitar, Aerial Photography, Personal Projects