

# DORDE POPOVIC

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## EDUCATION

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### Carnegie Mellon University (Class of 2022), Doha, Qatar

- Major: Computer Science
- GPA: 3.76/4.0
- Relevant course work: Fundamentals of Programming and Computer Science, Principles of Imperative Computation, Concepts of Mathematics, Probability and Random Processes, Matrices and Linear Transformations.

## PROFESSIONAL EXPERIENCE

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### International Academic Center, Belgrade, Serbia

*IT Department Intern*

- Identified and fixed program errors in student data tools
- Provided staff tutorials and training in zoom
- Researched and tested software for digital lessons and marking
- Managed database transfer and hardware for executive director

### Robotics, Doha, Qatar

*Senior Programmer/ Deputy Project Manager*

- Competed in the CMUQ Robotics Championship 2016 and CMUQ Robotics Championship 2017
- Programmed first team's Smallbot and Bigbot in C and Python
- Worked with infrared (Top Hat), light, touch and rangefinder sensors, programming using both analogue and digital data; awarded the Prize for the Best Use of Sensors at CMUQ Robotics Championship 2016
- Composed and presented the team's project documentation and presentation

## PROJECTS

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### Operating System Simulation

Code: <https://github.com/dordep/15-112-Final-Project>

- Programmed a multifunctional implementation of an operating system in Python 3
- Developed graphical user interface for operating system desktop, applications and menus
- Gained experience working with the operating system, file management, image and sound libraries
- Implemented object-oriented solution to complex program

### Machine Learning Math Tool

- Built segmentation algorithm for analyzing and extracting digits and symbols from images of mathematical equations
- Programmed neural network for classification of numbers and digits using public dataset
- Learned and used supervised machine learning, optimization and dataset preparation methods

### Google Hashcode 2019

- Competed in global hackathon run by Google, placing amongst top 5 teams in Qatar
- Conceptualized and implemented image-based slide-constructing program, using smart algorithm for complexity reduction

## EXTRA-CURRICULAR

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### The Duke of Edinburgh's Award, International

*Bronze, Silver, and Gold Award Recipient*

### Doha College Eco School Committee, Doha, Qatar

*Head of Committee*

- Composed, conducted and reviewed a survey that was completed by 653 members of the community
- Orchestrated litter monitoring, weekly paper recycling, meatless Mondays, earth hour, and book drive
- In charge of data handling and design of the Committee's website

### Doha College Digital Learning Program, Doha, Qatar

*Senior Digital Leader*

- Hosted the Ministry of Education during an inspection of Doha College's Digital Learning Program, presenting data models for the integration of technology in the classroom and school community to members of the Ministry of Education
- Provided training in Google Drive, Docs, Sheets, Slides and File Collaboration for Year 7-9 groups & staff members

**Languages:** Serbo-Croatian (Native), English (Native Fluency), French (Conversational)