LIZA BABAOGLU

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My Website • LinkedIn • GitHub Page • YouTube Page

EDUCATION

University of Toronto, Faculty of Applied Science and Engineering, Toronto, ON.   *Cumulative GPA: 3.60/4.00*
Electrical and Computer Engineering (Year 2)   *Expected Graduation:* May, 2024 (with one industry year in 2023)

Relevant Courses: C Programming; Calculus II; Electrical Fundamentals; Engineering Strategies and Practices II; Linear Algebra
Awards: 2 x Dean's Honor's List; Leadership Award; Mind Olympics Finalist; Math and Chess Awards; 50+ sport medals.
Scholarships: Dean's Merit Award; Faculty of App. Sci. and Engineering Admission; Barbara Mcann Tribute; ARS Roubina.

PROFESSIONAL EXPERIENCE

Research Intern at **Data Science Laboratory, Ryerson University,** Toronto, ON.   May 2020 – Aug 2020
• Conducted exploratory data analysis and data mining; utilized and tested prediction models on a national vehicle collisions database.
• Researched, conducted literature review; wrote a technical research paper; and collaborated with laboratory members.

Student Intern at **Toros Filtration,** Istanbul, Turkey.   Jul 2018 – Jul 2019
• Introduced, presented, promoted the company's original "Oil Purification System" to 100+ investors, engineers, sales representatives, and guest visitors in the Hannover Messe International Conference, Germany.
• Increased the English interaction with potential customers by 30%, and was recognized as the most diligent member.

Founder of **LizDesign,** Toronto, ON   Founded in July 2018
• Allowed quick and inexpensive production of personalized objects through my designs in Fusion360 and 3D printing.
• Designed, printed, marketed, delivered original and personalized ornaments, keychains, coasters, and frames.

Other Professional Experiences: Intern at Exceed Robotics; UofT Summer Camp Counselor; Math Tutor; Volleyball Coach.

PROJECTS

Research **Manuscript** and **Presentation** on "The Impacts of International, Domestic, and Local Mobility on COVID-19 Deaths"
(Team Project) -National Undergraduate Big Data Challenge 2020
• Conducted data analysis on the collection of multiple open-source datasets in international health and tourism, using *Python, R,* and *Tableau*; presented using *LaTeX, Adobe After Effects,* and *Camtasia.*
• Selected as finalists, where our abstract got published in the STEM Fellowship Journal.

My Personal **Website** (Solo Project)
• Built and designed a unique, interactive, and dynamic website using *HTML, CSS, JavaScript,* and *GitHub.*

Game Development (Solo Projects)
• Built an original iOS application that receives an input - word, name, or a sentence - from the user in English and/or Armenian letters and displays a personality describing positive word for each letter in their respective alphabets, using *Swift, Xcode,* and *App Icon Generator.*
• Coded the Reversi game which can play against a human opponent, as well as a computer opponent (or itself), using *C.*

Other Projects: Multiple team projects in biomedical engineering, wildlife, and environment fields.

LEADERSHIP & AFFILIATIONS

University of Toronto's Aerospace Design Team (UTAT), Toronto, ON   Sept 2019 – Present
Space Systems – Active Member in both Mechanical Structures and Firmware Systems
• Researched technical requirements, vibration and shock test specifications, material and manufacturing methods regarding the structure of our 3U CubeSat ("FINCH"), which will be launched to space.
• Developed the watchdog timer on the STM32 CubeIDE.

Engineering Athletic Association (EAA), Toronto, ON   June 2020 – Present
Women's Director
• Narrated and participated in the matriculation video to welcome the 1000+ freshmen and introduce our club, teams and events.
• Organized all women's sports teams and participated council and committee meetings overseeing more than 100 players.

Other Leadership & Affiliations: Team Leader and Project Manager of university course projects; Intramural Games; Armenian Students Association; LiveGreen Volunteer; Angel Alert Emergency Volunteer.

SKILLS

Language: English (native), Armenian (native), Turkish (native).
Computer: Proficient in C, C++, R, Python, Swift, Xcode, MATLAB, Arduino, HTML, CSS, JavaScript, STM32 CubeIDE, Arduino, LaTeX, Camtasia, Fusion360, Microsoft Applications.