Elio Di Nino

Computer Engineering Student

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Computer engineering student with multiple years of experience in both hardware and software. Passionate about solving meaningful problems efficiently and effectively. Excel at low and high-level design, systems integration, and testing.

Skills

- **Languages:** Java, Python, C/C++, SQL, JavaScript, TypeScript, HTML & CSS, System Verilog, ARM64 Assembly
- **Libraries & Frameworks:** Gradle, JUnit, Gson, Selenium, Flask, Django, React, MUI, REST APIs
- **Tools:** Git, SSH, Linux, Docker, GitHub Actions, Google Cloud, Postman, Netlify, Arduino, Soldering, Oscilloscopes
- **Interests:** Landscape Photography, Soccer, Cycling, Skiing, Travelling

Education

University of British Columbia   **Expected May 2026**

Bachelor of Applied Science - Computer Engineering   Dean's Honour List - CGPA: 86.9% | 3.8 / 4.0

Co-op: Available for 4, 8, or 12 months beginning January 2024

Presidential Scholars Award – UBC (2021, Recurring)

- Awarded based on strong academics, leadership skills, and strong future potential. Received the BMO Financial Group National Scholarship, a 4-year renewable award at $10,000

Technical Experience

UBC Uncrewed Aircraft Systems, Student Design Team

Software Co-Lead   **Jun 2022 – Present**

- Acquired a Canadian Advanced RPAS License after 2 months of studying to fly team drones at competitions
- Improved cross-platform compatibility with Docker containers and made 5 related CI/CD pipelines with GitHub Actions
- Introduced 4 new major projects to overhaul our systems and distributed tasks among 18 software developers

Software Developer   **Sep 2021 – Jun 2022**

- Revamped the ground control software by updating 8 endpoints in a back-end Python API, integrating a Django server with a React application, and adding a login page to connect to competition servers
- Implemented a winch command relay that sent serial signals to an Arduino and received controls wirelessly (ACOM)
- Reduced image streaming latency from 12s to 1s by configuring an onboard Linux microcomputer remotely with SSH

Projects

Personal Website (eliodinino.com)   **Aug 2022 – Present**

- Built a React website with Typescript and MUI, then hosted it on Netlify to increase online presence
- Optimized images by using modern formats (WebP and AVIF) and dynamic sizing, leading to 155% faster load times
- Created a responsive layout to support mobile devices with the react-responsive library and CSS media queries

Multi-Client Server (Description), CPEN 221   **Nov 2022 – Dec 2022**

- Constructed a Java server supporting multiple simultaneous clients capable of interacting and fetching Twitter data
- Enabled dual-server routing so that either server can be connected to, and no interruptions occur if one goes offline
- Followed security protocols by hashing and salting all passwords and encrypting incoming and outgoing data via AES

Simple RISC Machine, CPEN 211   **Nov 2022**

- Implemented a Turing Complete 16-bit RISC machine using System Verilog on an FPGA board in 3 weeks
- Utilized pipelining to increase operations per cycle by 300% and go beyond course expectations

SSC Scripts (GitHub), University of British Columbia   **Jul 2022**

- Automated checking of UBC's Student Service Center for new information such as grades to save students' time
- Gained experience with Selenium's WebDriver in Python, allowing for the automation of any browser task

Other Experience

JOEY Restaurant Group, Vancouver, BC   **Jul 2020 – Sep 2021**

Online Sales Manager

- Led a team at the Burrard location to manage $30,000 in DoorDash sales weekly with less than a 1% error rate
- Streamlined employee tasks and onboarding by making over 15 easy-to-follow lists and instruction documents
- Collaborated with 7 other managers to train employees, perform weekly liquor inventory, and order essential items