CONNOR BELEZNAY

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OBJECTIVE

Third Year CS student with industry experience seeking full-time summer internships/co-op

EDUCATION

Bachelor of Computer Science, (Honours, Soft.Eng. stream, Co-Op), Carleton University — Expected 2024
GPA: 3.9 / 4.0; Dean's List 2020, 2021, on track for 2022.

Bachelor of Arts, University of British Columbia — 2014 - 2017

EXPERIENCE

Software Engineer (Co-op) - EdgeAI, Embedded Team — Sept 2022 - Dec 2022
Blackberry QNX — *Kanata, ON*

- Developed and debugged in a cross compiled environment with a linux host and a safety certified RTOS target.
- Participated in Agile enviornment, weekly stand-up meetings, code reviews and tracked issues with JIRAs, to advance a high visibility, "mission critical" project.
- Helped port Edge AI robotics software from Linux to QNX. Identified and solved a major memory leak in a products ROS2 implementation using a system profiler.
- Developed a ROS2 Node and middleware using a publisher-subscriber framework in C and Python to enable communication between the OS's HID management service and the ROS2 node to add support for a wireless input device that could be used for remote manual over ride of processes on an embedded Edge system.
- Followed test plans and wrote test reports used to validate weekly releases.

Application Engineer (Co-op) - Autonomous Vehicles — April 2022 - Sept 2022
Blackberry QNX — *Kanata, ON*

- Led a team of 3 coop engineers to advance ADAS capabilities of an Autonomous Vehicle demo app.
- Designed and implemented a street sign detection and classification system with a digit OCR implemented with the K-NN supervised learning algorithm in a real time environment using OpenCV with a $> 90\%$ accuracy.
- Designed and implemented a low-weight ADAS lane keeping system utilizing OpenCV, to apply matrix transformations to warp an image and apply a sliding window algorithm to identify painted lanes.
- Leveraged a proprietary sensor frame-work to combine Lidar and Camera data to make navigation decisions in real time.

SKILLS

Languages:	Python, C, C++, Javascript, ES6, Typescript, Java, CSS,
Libraries/Frameworks:	OpenCV, NumPy, NodeJS, Express, Django, SQL, no-SQL, React, DDS, ROS2
Tools:	Linux, Git/Github/Gitlab, REST-APIs, Shell Scripting JIRA, Valgrind, Docker, Machine Vision, CI-CD, Edge Computing, Google, Momentics, QNX, RTOS

PROJECTS

NLP for Email - Chrome Extension Built a chrome extensions which integrates into Gmail and outlook to generate contextual replies based on a received email. Built using JS, NodeJS, Express, Webpack 3. Coming soon: Animations with React and Spring, user authentication and payment processing, calender integration.

Virtual Assistant/Tutor Embedded project utilizing RPI4, camera, microphone, Machine Vision with OpenCv and Tesseract OCR, ASR with Mozilla DeepSpeech, UNIX FIFO pipes for IPC, multithreading and NLP with GPT3 to help answer technical questions, provide feedback on written work, help with math problems etc. Built with NodeJS, javascript, Python, C++