

Kevin Tonkich

Canadian & German Citizen | ktonkich@gmail.com | +81 070-8999-2801 | [LinkedIn: Kevin Tonkich](#) | [GitHub: tonkich7](#)

EDUCATION

Keio University

Tokyo, Japan

Master of Science in Engineering

Oct. 2025 - Aug. 2027

- o Conducting research under the supervision of Prof. Tomoaki Ohtsuki. Applying state-of-the-art **machine learning** and **signal processing** methods for contactless vital sign detection using various types of **radars and sensors**.

University of Alberta

Edmonton, Canada

BSc with Specialization, Computer Science

Sept. 2020 - June 2025

- o **Related Coursework:** Algorithms, Foundations of Computation I & II, Formal Systems and Logic, Applied Statistics I & II, Practical Programming Methodology, File and Database Management, Software Engineering, Machine Learning I & II, Search and Simulation, Reinforcement Learning, Search and Planning in AI, Natural Language Processing (NLP), Information Retrieval, Web Applications and Architecture, AI Capstone

EXPERIENCE

City of Edmonton

Edmonton, Canada

Project Testing Intern

May 2024 – Aug. 2024

- Gained **project management and testing** insight into “Enterprise Commons”, an **\$80,000,000** initiative to update all City of Edmonton **software systems**, impacting services for **1,500,000** residents and **5,500** employees
- Developed **Python / Pandas** and **Bash** scripts on **Linux** systems to automate **SFTP file transfers**, including **PGP encryption / decryption** reducing manual file handling efforts by over **90%** for up to **100** different third-party servers.
- Utilized **GitLab** for **Git version control**, ensuring **code integrity** and facilitating project oversight through **issue tickets**

Seaspan

Vancouver, Canada

Data Management Intern

Jan. 2024 – May 2024

- Implemented robust **data management systems** and processes to streamline the organization, storage, and analysis of extensive engineer and inspection testing data for large ships in the Canadian Navy
- **Developed Python scripts** to **automate the retrieval and parsing** of **20,000+** engineer and inspection testing files stored on **SharePoint**, reducing manual efforts by over **90%**, leveraging **SharePoint APIs and libraries**
- Established **standardized protocols and documentation processes**, bridging workflow gaps between departments

Mercedes-Benz AG

Sindelfingen, Germany

Software Engineering Intern

June 2021 – Sept. 2021

- Created a **file generator/parser using Python and Pandas** to filter and parse through AUTOSAR specific .arxml files to create and populate new **datasets** in Excel to exponentially speed up manual data filtering processes
- Utilized **C language** to engineer electric car battery cell voltage simulator software which connects to **FPGA Hardware**
- Configured **hardware development boards** to simulate battery voltages, worked with **AUTOSAR Layered Architecture**
- Followed **Agile methodology** using tools like **Jira and Git** to manage **collaborative development tasks**, and discussing progress/concerns in **daily stand-up meetings**

PROJECTS

NeuroScribe

Edmonton, Canada

natHACKS 2023 Hackathon Project – 1st Place Winner (\$4000 prize)

- **Developed** “NeuroScribe”, a tool using **OpenBCI hardware** to harness EEG brain waves for **hands-free mood and speech communication**, utilizing **2 machine learning models** to predict user mood and **3 text prediction models** to predict user speech **Semantic** relative to detected mood
- Trained models in **Python** using **Deep Learning in Natural Language Processing through TensorFlow and Keras**

SKILLS

Software: Python, Java, JavaScript, C, TypeScript, Git, XML, Julia, SQL, MongoDB, HTML, CSS, React, Android Studio

Techniques: Agile Programming, Scrum, Unit Testing, UML diagrams, ER and Relational Models, Dynamic Programming

Other: English (*fluent*), German (*fluent*), Russian (*fluent*), Japanese (*limited working proficiency*)