# GRAHAM MEULENDYKS
## Software Engineer
gmeul.public@gmail.com

in LinkedIn                                    Github                                    Website

## EXPERIENCE

**Trackunit**                                                              June 2018 - Present
Software Engineer

- Achieved low-latency, high speed, and generalized communication between software components by implementing an event driven dataflow network. This feature is deployed and is in use on over 100,000 field units.

- Improved existing embedded device capabilities by reducing the amount of existing technical debt. The amount of technical debt eliminated was measured by the reduced usage of flash, heap, and long term storage of the embedded devices.

- Introduced remote updates for an embedded ecosystem on a flagship device by implementing a generic package manager to download, verify, and install packages on demand.

- Implemented cross state timers on embedded devices to allow the execution of customized actions at scheduled intervals during sleep, hibernate, and running modes.

- Created and maintained device data integrity and security software by implementing keypad security protocols over J1939.

**LBMX**                                                              January 2015 - June 2018
Software Developer

- Introduced user security restriction to website features by integrating JSON Web Tokens (JWTs) into an existing browser application. This feature was deployed for use by thousands of web portal users.

- Monitored new records added in a legacy database and translated them directly to records in a modern database by designing and creating a C# tool. This application was deployed to production to maintain a blue green model of both databases for slow phase out.

- Allowed concurrent customers to input supplier to consumer invoices into a central database using a browser based application. I was responsible for designing and implementing a fully operational stack of web development logic.

## SKILLS

**Languages:** C, C++, Java, Python, MSSQL, C#, Javascript, Typescript, HTML5, CSS, Markdown, LaTeX, Mathjax
**Software & Tools:** Git, Vim, Bash, GBD, VsCode, Visual Studio, Docker, Quantum, Postman, Kibana, Angular, Angular 2, Ionic, Qt
**Other:** SaaS, OOP, SOLID, DRY, Modbus, RS232, RS485, J1939, TCP/IP, UDP, Socket Programming, RTOS, Asynchronous Programming, Shell Scripting, CRUD/REST APIs, Code Reviews, Design Patterns, Google Protobuffs, STM32 Architecture

## EDUCATION

**Old Dominion University, Virginia**                                    September 2020 - Present
Bachelor's of Computer Engineering

**Fanshawe College, Ontario**                              September 2013 - December 2016
Ontario Advanced Diploma in Computer Programmer Analyst

## AWARDS

**ACM International Collegiate Programmer Contest:** Third Place
**Fanshawe College:** Dean's & President's Honor Roll