

Jacob Meyer

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Education

BASc - Software Systems Engineering 2025, University of Regina, SK

Projects

1. Embedded system RTOS traffic light control simulator

Software and languages:

- C with STM32F1 HAL library
- Coroutines and concurrency handling
- Hardware interrupt-driven behavior

Features and functionality:

- 4-way intersection with corresponding LEDs
- UART CLI providing realtime status and control
- User-responsive directional crosswalk buttons

2. Horror-roguelike video game with state-based gameplay (UofR Capstone)

Software and languages:

- Godot with static typing and strict linting
- Object-oriented programming
- Github team workflow with branch-based PR process requiring teammate approval

Features and functionality:

- 2.5D state- and information-based gameplay
- Randomly generated levels
- Thorough player knowledge-management
- Dedicated integration-testing environment

Skills

Programming

- C, C++
- SQL, MongoDB
- Java
- Python, Jupyter
- GDscript
- ARM Assembly
- HTML, PHP
- CSS, Sass
- Javascript, VueJS

Software

- Github & TFS
- Linux CLI
- Network computing
- LAMP stack
- virtual environments
- UI/UX design & prototyping
- Graphic design
- MS Excel & Word
- AutoCAD and Solid Edge

Teamwork

- Thorough in capturing and communicating details
- Strong documentation skills
- Strong public presentation skills
- Approachable and open to constructive criticism

Relevant Experience

Teaching Assistant	Oct 2024 - Dec 2024
University of Regina , Regina, SK	
- Assisted lab instructor for a 3rd-year Software Engineering class	
- Evaluated student work and quiz them on their execution strategy	
- Helped students and answer questions about lab material	
High School Mentor	Jan 2024 - Feb 2024
EYES, University of Regina , Regina, SK	
- Answered questions and engaged with high school students through a university lab experience	
- Demonstrated a positive role model for future students	
Head Brewer	Feb 2022 - Jan 2023
Iron Bridge Brewery , Lumsden, SK	
- Carried out all production tasks, including: brewing, canning, cleaning, inventory tracking, and task planning	
- Minimized losses from canning up to 90% by process refinement	
- Reduced preparation time by 30% by identifying parallel processes	
- Promoted from taproom Server position	
Jr. Programmer Analyst	Jan 2021 - July 2021
Saskatchewan Liquor & Gaming Authority , Regina, SK	
- Write SQL scripts for data fixes and feature implementation	
- Customized document templates to automatically retrieve information from a database for automated messaging	
- Worked within a team to implement, test, and debug feature changes and additions over a development cycle	

Volunteer

Board Member	May 2023 – Now
Wascana Solar Co-op , Regina, SK	wascanasolarco-op.com
- Current committee chair of Solar Way program	
- Participated in multiple roles including board secretary, organizing 2024 AGM, and Marketing & Communications subcommittee	
- Client Management for Solar Way program, including site visits, preliminary solar array design, and economic analysis	
- Draft and schedule various social media posts on Facebook and Instagram using Meta Business Suite	
- Design and create graphics for presentations and social media	