Kai Kovacik

Computer Science Student at the University of Victoria

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PROFESSIONAL WORK EXPERIENCE AND PROJECTS

Homathko Satellite Design — *On-Board Computer System*

A student-run project to design a 3u CubeSat that will service observatories by providing a light of known intensity from orbit; this will allow for correction of atmospheric disturbances. Working on the team designing the on-board-computer system (both software and hardware). uvsd.com, www.ecosat.ca/homathko/

CSA 2u CubeSat Design — *On-Board Computer System*

An extension of Homathko, executing the same task. With a $200,000 grant from the CSA and a guaranteed launch from the ISS. Working on the team designing the on-board-computer system (both software and hardware). uvsd.com

School District no. 62 Tech Committee — EMCS Student Rep.

Represented the student population of EMCS in the Technology Committee of SD62, consisting of members from the administrative board and other schools.

CS Tutor — *Private Computer Science Tutoring*

Tutoring several people in software development for various computer science classes.

Website Design — *Personal Websites*

Worked on several non-commercial websites.

Guest Lecturer — Computer Science Presenter

Talking in various first-year Computer Science classes about embedded systems, operating system construction, and error handling and detection.

EDUCATION

University of Victoria, Victoria, BC, Canada — *BaSc (Comp Sci)*

September 2016 - April 2020

In the process of earning a degree in computer science, with a focus on machine learning and artificial intelligence.

EMCS, Sooke, BC, Canada — *Dogwood Diploma*

September 2012 - June 2016

Completed dogwood diploma at EMCS in French Immersion.

*References available upon request

SKILLS

- **Java**, **C**, **Python**, HTML, JS, CSS, C++, and Kotlin
- Teamwork and leadership
- Assembly (specifically ARM and AVR)
- R and Julia
- HALCogen
- Eclipse and Code Composer Studio
- Windows and Unix
- Command Line and Git
- SolidWorks
- Sony Vegas
- Excel and PowerPoint

AWARDS

- **Certificate of Merit:** Honour Roll at EMCS
- **Academic Excellence Award:** Excellence in Calculus 12 and Physics 12 at EMCS
- **English 12 AP Award:** Outstanding Senior in English
- **Quinnlyn Noah Stamford Memorial Award:** Senior Musicianship Award at PJ Music Studios

INTERESTS

- Machine learning and AI
- Computer Science and algorithms
- Satellite design
- Calculus and linear algebra
- Web design
- Building computers
- Photography
- Cinematography
- Piano

REFERENCES

Jennifer Gruno

Former Department Head at EMCS

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Dean Baldwin

Department Head of Mathematics at EMCS

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Mike Smirl

Assistant Director at PJ Music Studios

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