Mathias Petersen

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Profile

Accomplished team lead robotics software engineer, passionate about mechatronics and technology.
Adept in various languages, systems, and cutting-edge technology

Education

- **North Surrey Secondary**
  15945 96 Ave, Surrey, BC V4N 2R8

Work Experience

Product Design Lead   March 2023 – Present
Prometheus Dynamics
- Developed software and hardware for R&D of robotics products
- Managed and mentored team to improve skills
- Designed vision tracking software with customizable UI
- Demonstrated ability to work under pressure and meet deadlines
- Maintained excellent attention to detail in robotics project management.

Lead Software Engineer   October 2018 – Present
Hephaestus Robotics
- Led FRC programming, designed core systems and apps
- Worked 10 hours/day to create competitive robots
- Qualified team to apply for Canadian Olympic Team in FIRST Robotics
- First in BC to create and program swerve drive robot.

Crew Trainer   August 2021 – November 2022
McDonald's
- Trained new crew members in a fast-paced environment
- Prioritized sanitation and safety in food handling
- Improved productivity and quality of work
- Maintained clean workplace environment.

Lead Instructor   Summer 2022
Byte Camp Education Society
- Led 1-week summer camps for kids in Blender, Godot, and Scratch
- Taught 3D modeling, animation, and game development with Godot
- Scratch used for younger kids to learn programming fundamentals.

Hobby and Skills

Programming   6 years
Java(6) – C/C++(4) – JavaScript(4) – C#(3) – SQL(3) – Python(2) – PHP(2)
I am an experienced programmer, with a strong track record of creating open-source projects and developing innovative database management layers for SQLite. I have expertise in software development for complex position estimation, tracking, and calculation, and am well-versed in various programming languages and methodologies.

Home Lab   3 years
My home lab is a professional-grade virtualized environment with high-performance equipment that helps me improve my IT skills in areas such as network administration, cybersecurity, and cloud computing.

Linux Systems   3 years
I have a strong proficiency in Linux, using it as my daily driver across two devices. I am skilled in system administration, software installation, shell scripting, user and file management, network configuration, and troubleshooting.