

CHRISTOPHER PEDERSON

ELECTRICAL ENGINEER
UNIVERSITY OF WATERLOO

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www.skillsnstuff.com

SKILLS

- PCB Design and Manufacturing
- SPICE analysers (LT SPICE and Micro-Cap)
- CAD, Fusion 360, Solid EDGE, EAGLE
- 6+ years with FDM 3D printing
- Rapid PCB prototyping, soldering, with both through hole and SMT
- Team management

PROGRAMMING LANGUAGES

High Proficiency

- C/C++
- JS/REACT JS
- HTML/CSS

Moderate Proficiency

- Java
- Python/Django
- VHDL

SPORTS

Ultra Marathons / Marathons

- Forgotten Florida 100 Miler
- Telford Lake 55 Miler
- Toronto Marathon 2024

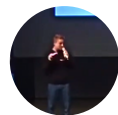
PROJECTS

PLEASE VISIT MY CUSTOM WEBSITE TO SEE ALL MY EXPERIENCE AT WWW.SKILLSNSTUFF.COM



8-BIT RTL CALCULATOR FROM CUSTOM DESIGN

- Designed custom analog logic circuits and manufactured PCBs using EAGLE, Fusion 360, and SPICE analyzers like LT SPICE and Micro-Cap.
- Capable of adding two 8-bit binary numbers



FOUNDER OF EROR SEMICONDUCTORS

- Designed custom field effect transistor to try and tackle thermal and architectural issues with existing solutions
- Spoke at Young Founders Summit Asia 2019 to talk about our work



FULL STACK WEB DEVELOPMENT

- Built corporate and personal portfolio Websites using HTML, CSS, JS, REACT, Bootstrap, Tailwind, and Django.

EXPERIENCE



PROJECT LEAD / PRODUCT DEV (8 MONTHS)

PlasmaGear inc.

- Developed controller PCB for mass-produced public transport air purifiers adhering to automotive standards.
- Programmed Embedded C/C++ Firmware for integrated MCU with custom bootloader
- Designed robust ABS and sheet metal casing for large-scale production with injection molding using CAD.



PROGRAMMING INSTRUCTOR (5 MONTHS)

CodingPlusOne

- Taught hundreds of classes on programming fundamentals for both large and small class settings
- developed course material for both high- and low-level programming languages that are still in use today.