

# DEAN DAVID MENKIS

236-982-1553 | dmenkis@my.bcit.ca | deanmenkis.me

## EDUCATION

---

### British Columbia Institute of Technology

Burnaby, BC

*Electrical and Computer Engineering Technology*

**Average: 92%** | Sep. 2024 – Present

- Designed & assembled a variable DC power supply using SolidWorks and KiCad.
- Programmed hierarchical logic circuits on PLDs using AHDL through Quartus II.

### Electrical Joint Training Committee

Port Coquitlam, BC

*Entry Level Trades Program*

**Grade: 86%** | Sep. 2023 – Dec. 2023

- Designed code-compliant wiring diagrams for residential apartments.
- Installed and wired electrical components including panels, breakers, heaters, and lighting fixtures.
- Applied CEC 2024 Electrical Code (CSA C22.1:24) standards to residential and commercial projects.

## EXPERIENCE

---

### British Columbia Institute of Technology

Vancouver, BC

*Research Assistant: Climate Agency to Action*

July 2025 – Present

- Developed a classification taxonomy for BCIT program pathways based on Bohemberger's Sustainable Employment model.
- Coordinated a joint UBC-BCIT research survey, increasing student engagement through targeted outreach.

### Mott Electric

Port Coquitlam, BC

*Apprentice Electrician*

Jan. 2024 – Mar. 2024

- Retrofitted downtown high-rises with fiber optic infrastructure, receptacles, and lighting systems.
- Troubleshoot and rectified optical and ethernet cable installation faults.

## LEADERSHIP & VOLUNTEERING

---

### BCIT Robotics Club

Burnaby, BC

*President*

July 2025 – Present

- Direct club operations and project initiatives, serving as the official spokesperson of the club.
- Work jointly with the IEEE and ESS club presidents to plan and host workshops and seasonal events.
- Re-established governance by drafting a constitution and implementing inventory tracking for club resources.

## PROJECTS

---

### BCIT Robotics Club - Robotic Dog | Fusion 360, C++, JavaScript

Apr. 2025 – Present

- Designed and 3D printed a 16:1 planetary gearbox actuator to minimize backlash and maximize durability.
- Worked in collaboration to develop inverse kinematics algorithms in C++ for quadrupedal motion.

### Arduino RC Car | Fusion 360, C++, JavaScript

Jan. 2025 – Mar. 2025

- Engineered an RC car chassis with print-in-place universal ball joints and featuring a Tank & Ackermann steering systems.
- Implemented controls via a custom web app communicating directly with the Arduino R4 Wifi.

## TECHNICAL SKILLS

---

**Programming Languages:** C/C++, Verilog, AHDL, Python, Java

**Software & Tools:** Fusion 360, Inventor, SolidWorks, Quartus II, KiCad, Arduino, Git

**Core Competencies:** PCB Design, Circuit Analysis, PLC Programming (Ladder Logic), 3D Modeling