David Shoeib

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Education

University of Toronto — Toronto, ON

Bachelor of Applied Science in Engineering Science (with PEY Co-op) — *Expected June 2030*

- **CGPA**: 3.40/4.0, **Honours**: Dean's Honour List (Fall 2025), The Shaw Admission Scholarship
- **Coursework**: Vector Calculus & Fluid Mechanics, Thermodynamics & Heat Transfer, Digital & Computer Systems, Electric Circuits, Algorithms & Data Structures (C), Computer Programming (Python)

Technical Skills

Design & CAD: SOLIDWORKS (CSWA), Onshape, Fusion 360
Software & Analysis: Python (NumPy, Matplotlib), C, MATLAB, Git, Vercel, LaTeX, Tracker Video Software
Hardware & Embedded: SystemVerilog, Quartus, ModelSim, GTKWave, Icarus Verilog, Cyclone V FPGA (DE1-SoC)
Electronics & Bench Tools: Oscilloscope, function generator, DC supply, multimeter, LCR meter, breadboarding

Projects & Design Teams

U of T Biomedical Engineering Design Team | *Cardiac Triage System* — Sep. 2026 – Present

- Research the **setup-time** design objective for a **SpO2**, blood pressure, and heart rhythm triage device, gathering requirements across a **multi-disciplinary team** of mechanical, electronics, physiology, and software members
- Map requirements to **ISO 80601-2-61** and **CSA C22.2 No. 80601-2-30** for a **Class II** non-invasive device; presented this research to the full design team at a general meeting

Variable Swim Resistance Device | *Human Factors, Stakeholder Engagement* — Feb. 2026 – Apr. 2026

- Guided structural decisions in a team of **4** to design a swim training device delivering **250+ N** of resistance at a **7.87 s** setup time, meeting stakeholder requirements
- Independently developed and evaluated a weighted-tube alternative prototype (**12" x 12" x 22"**, **20 kg** filled) and authored the team's **showcase documentation**

Glove Doffing Device | *Fusion 360, Ergonomics, Proxy Testing, Iterative Prototyping* — Sep. 2025 – Dec. 2025

- Prototyped **3+** glove-removal mechanisms in **Fusion 360** and validated through **proxy tests** in a team of **5**, holding applied force **below 22.2 N** and weight **below 500 g** while reducing contact rate from **37%** to **5%**

Digital & Analog Circuits Laboratories | *ECE253, ECE159, HDL Simulation* — Jan. 2026 – Present

- Designed a **ripple-carry adder** and **ALU** in **SystemVerilog**, simulated in **ModelSim** and deployed to a **Cyclone V FPGA** (DE1-SoC); built and characterized **op-amp** and **RC filter** circuits on benchtop instruments

Professional Experience

U of T Emergency First Responders (UTEFR) — Toronto, ON

Active Responder — *Sep. 2026 – Present*

- Hold **Red Cross First Responder** and **Basic Life Support (HCP)** certification; completed the UTEFR skills evaluation for on-campus emergency medical response
- Sourced and completed a **Lifesaving Society First Aid Examiner apprenticeship**, co-instructing a Standard First Aid course alongside UTEFR's **Executive Director**

City of Mississauga — Mississauga, ON

Leadership Instructor and Examiner, First Aid and Lifesaving — *Sep. 2025 – Present*

- Instruct and examine **First Aid** and **Bronze Medal** candidates against national **Lifesaving Society** standards, **40+** to date, with **91%** of those taught earning certification

Lifeguard and Swim Instructor — *Aug. 2023 – Present*

- Supervise up to **100** patrons in a high-volume aquatic facility, teach **250+** youth through progressive swim development, and mentor junior instructors (**10+** trained to date) on aquatic program delivery

Certifications

SOLIDWORKS Design Associate (CSWA, ID: C-W87FLQ4G92), Lifesaving Society Instructor and Examiner (Lifesaving and First Aid, ID: SHDJ9E), Red Cross First Responder (Certificate: 107554930), Red Cross Basic Life Support (BLS, formerly CPR-HCP) (Certificate: 107554929), National Lifeguard, Pleasure Craft Operator, WHMIS