

Ian Wright

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PROFILE

Chemical Engineering student with a solid background in CAD design, model prototyping, lab techniques and data analysis. Strong foundation in thermodynamics, process design, and interdisciplinary systems, gained by leadership through project teams and coaching roles. Seeking a 16-month internship beginning May 2026, to learn and apply technical skills and contribute to engineering innovation.

EDUCATION

Bachelor of Science, Chemical Engineering
Schulich School of Engineering, University of Calgary

April 2028

CORE SKILLS

- **CAD Design** (Fusion 360, Onshape) - 3D modeling, simulation, and finite element analysis (FEA)
- **Programming** (Python, MATLAB) - Systems automation, data analysis, and complex computations
- **Engineering Design** - Process diagrams (PFD), interdisciplinary systems, process integration
- **Composite Fabrication** - Carbon fiber layups, vacuum bagging, resin infusion techniques
- **Lab & Safety Protocols** - Chemical handling, PPE use, fume hood operation, SOP adherence
- **Project Management & Technical Communication** - Budgeting, team coordination, research presentation

WORK EXPERIENCE

Senior Sailing Coach

May 2022 - September 2025

Central Okanagan Sailing Association, Kelowna, BC

- Coached 2000+ youth aged 4-18 in essential sailing competencies including, rigging, seamanship/water safety, and boat handling, while upholding risk management & safety standards
- Led a performance race team of 10 youth sailors, designed structured training plans and increased efficiency of practice sessions to improve competitive results in regional regattas
- Integrated applied sailing physics into technical lessons, teaching athletes how Bernoulli's principle, center of effort vs. center of lateral resistance, and apparent wind influence boat speed, balance, and control
- Mentored 5 new coaches over 2 years, providing structured guidance and personal feedback, aiding coaching effectiveness and professionalism

PROJECTS

Vice President Finance April 2025 - Present
Chemical Engineering Student Society, Calgary, Alberta

- Managed budget planning, financial logistics and resource allocation for 100+ society members over 6 portfolios

Member of Mechanical Division September 2024 - Present
Schulich UAV Team, Calgary, Alberta

- Focused on aircraft design and manufacturing for SUAS competition using CAD, FEA and carbon fiber application

Project Engineer May 2025 - Present
Designed & Prototyped Autonomous Greenhouse, Calgary, Alberta

- Controlled pressure system with CO_2 enrichment for optimized plant growth.
- Collected and analyzed growth performance data using statistical methods; findings to be showcased at the Undergraduate Research Symposium and local high school

Research Assistant August 2025 - Present
Adhesive Haptic Motor Technology, Kelowna, BC

- Developing wearable haptic devices for stroke patient treatment. Using random vibrations to help those affected by strokes to mobilize their bodies again

EXTRACURRICULAR ACTIVITIES

Santana 525 Sailboat Racing, Kelowna, BC January 2018 - December 2025

- 2-time Santana 525 National Champion
- Youngest skipper to win the Kelowna Yacht Club Overall Championship

EXTRACURRICULAR CERTIFICATIONS AND TRAINING

- Standard First Aid CPR A + AED, St. Mark James Training Ltd. May 2022
- CANSail Level 4 Technical Instructor, BC Sailing June 2022
- Avalanche Skills Training level 2, Yamnuska Mountain Adventures January 2025
- Certificate in Engineering Entrepreneurship, Schulich School of Engineering, University of Calgary In Progress

INTERESTS

- Enjoy physical activities such as running, weightlifting, mountain biking, skiing, and backpacking
- Filmmaking, photography, drone videography
- Playing recreational sports of volleyball, jiu-jitsu, basketball, and ultimate frisbee