

# Dominic Vandekerkhove

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## EDUCATION

**University of Calgary** | Bsc. Software Engineering, Mechatronics Minor Sep. 2019 - Apr. 2023

### Network Systems Security

- Utilizing tools and techniques for detection and protection against attacks including firewalls and intrusion detection systems, authentication and identification in distributed systems, cryptographic protocols for IP networks, and privacy enhancing communication

### Foundations of Mechatronics

- Modeling, analysis, and design of dynamic systems, including mechanical, electrical, electromechanical, fluidic, thermal, and mixed systems. Performance analysis of transient and forced response of linear time-invariant systems, and design to meet specifications in the time and frequency domains

### Software Architecture

- Software architecture and design for non-functional software properties, and analysis of existing architectures

### Software Testing, Reliability and Quality

- Concepts, methods, techniques, processes and tools for software testing, reliability and quality assurance

## PROJECTS

**Life-size Humanoid Robot (Capstone Project)** Sep. 2022 - Apr. 2023

- Revising and developing ROS packages in Python to read from a variety of sensors and display data in an updated GUI at the University of Calgary's UVS lab

**Triangular Arbitrage Trading Bot** May. 2022 - Jun. 2022

- Independently developed an automated crypto-currency trading bot in Python utilizing the Binance API

## EXPERIENCE

**Software Test Intern** May. 2021/2022 - Sep. 2021/2022

Embedded Systems Products Inc | Remote

- Writing and conducting UX testing procedures on voice-operated communication systems
- Developing and revising software applications designed to automate testing procedures for telecommunications products in C#/.NET and Visual Basic

**Club President** Aug. 2022 - Present

Hack Your Learning | Calgary, AB

- Communicating effectively with judges, company representatives, and internal club members to coordinate coding competitions and events at the University of Calgary