Dominic Vandekerkhove

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EDUCATION

University of Calgary | Bsc. Software Engineering, Mechatronics Minor   Sep. 2019 - Apr. 2023
- GPA: 3.3/4.0

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