# **CAMERON LEE-MING**

www.cameronleeming.com

leemingcameron@gmail.com

+1.778.689.3945

# HIGHLIGHTED TECHNICAL PROJECTS

Hydroponics: Soilless horticulture with remote nutrient monitoring

Drone: FEA, electronics and mechanical design

**Formula UBC**: Underbody design, adding 67% more downforce **Extended Essay**: CFD analysis of subsonic wing planform geometry

# FORMULA UBC SAE (ENGINEERING DESIGN TEAM)

Aerodynamics Lead (Summer 2019 – Summer 2021)

Aerodynamics Team Member, Advisor (2017 – 2019, 2022)

I led the development of one of the team's most ambitious aerodynamic packages, involving CFD analysis, track testing and aerodynamic design, composites manufacture and materials testing.

#### TECHNICAL WORK EXPERIENCE

Drive Systems Engineering Intern (May 2022 – September 2022)

**Tesla Motors** 

Designed and built an automated system (NDA). Design pulled from knowledge of fluid mechanics, data acquisition and welding.

# Battery Engineering Intern (May 2021 – December 2021)

**Tesla Motors** 

CAE (fluid and electromagnetism simulations) and data analysis – typically with MATLAB - for battery thermal systems.

# Quality Control Co-op (January 2021 – April 2021)

PepsiCo Beverages Canada

Diagnosed causes for low product yield, took part in daily quality-related operations. I also automated many of my daily tasks.

#### Applications Engineering Support (July – December 2019)

Custom Gaskets Industrial Specialties (CGIS)

Created a system for automatic valve-actuator sizing and worked with a supplier to design and manufacture brackets and couplings.

# Summer Engineering Internship (May – August 2018)

Bermuda Electric Light Company Ltd.

Designed a semi-autonomous chemical transfer system.

### NON-TECHNICAL WORK EXPERIENCE

Communications Assistant – UBC Mech (2020)

Summer Student – STEM Camp (2017)

Summer Student – Landscaping (2014 and 2015)

#### **TECHNICAL SKILLS**

#### CAD

SolidWorks (CSWA) Autodesk Inventor Catia V6

#### **Programming**

MATLAB, Python Java, VBA, Arduino HTML, CSS, ReactJS, jQuery

# **Computational Fluid Dynamics**

Star-CCM+

# Machining

Mill, lathe, waterjet

# **Composites Manufacture**

Wet layups and prepreg CFRP

#### VOLUNTEERING

Access Madagascar Initiative (August 2016)

**Bermuda Zoological Society** (2015-2016)

**Bermuda Conservation Services** (2012-2015)

#### **EXTRA-CURRICULARS**

Piano (2013-Present)

Aikido (2006-2017)

Track (2013-2017)

#### RECENT AWARDS

**BELCO STEM Education Award** (2019)

**Department of Workforce Development** (2019)