



UBC Formula
Electric

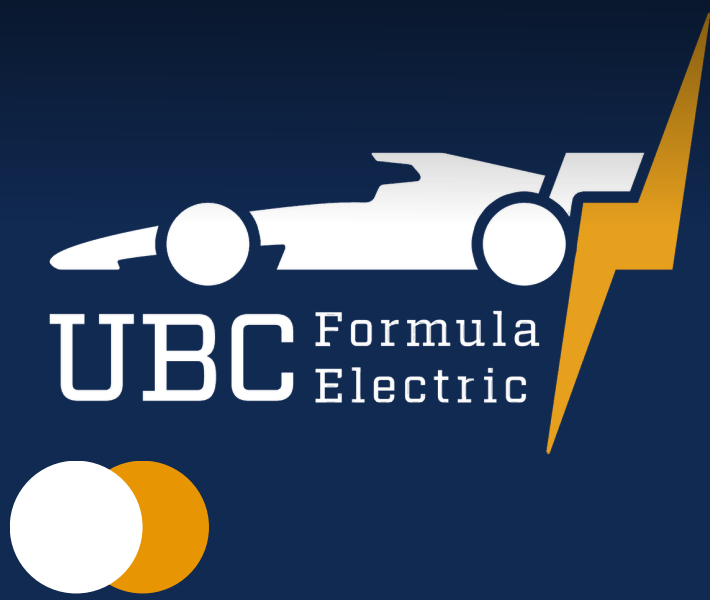
HIRING PACKAGE

Are You Ready To Join Our Team?

**Mechanical
Electrical
Software
Business**



**APPLICATIONS
CLOSE SEPT 18, 2026**



The Team

About Us

We are a multidisciplinary team of students who develop a high-performance electric race car to compete at Formula SAE Michigan each year.

We are looking for students who:

-  Bring exceptional attention to detail to their work
-  Have a willingness to learn concepts and tackle problems they have never seen in the classroom
-  Research, design, build and test their projects
-  Push themselves and the team to design to the highest possible quality
-  Offer and accept constructive feedback in the pursuit of high quality work



OPEN POSITIONS



Engineers

Mechanical

Electrical

Software

Business Operations

Finance & Accounting

Marketing

Sponsorship

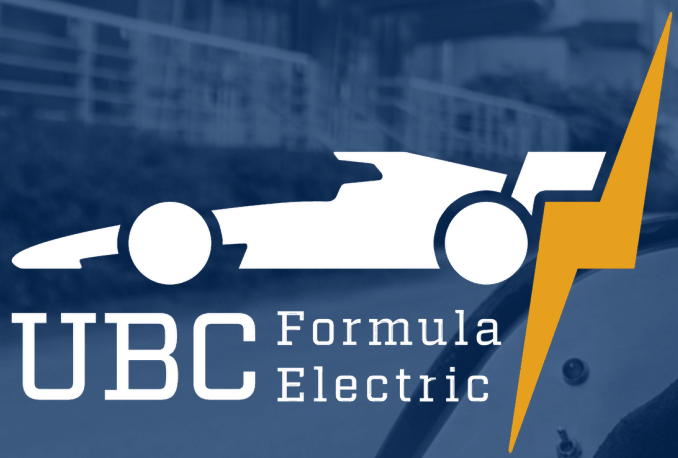
Information
Nights

September 11th and 17th
6:00PM

Location: TBD*

*Sign up to our recruitment newsletter on our
website to receive updates.

<http://ubcformulaelectric.com/apply>



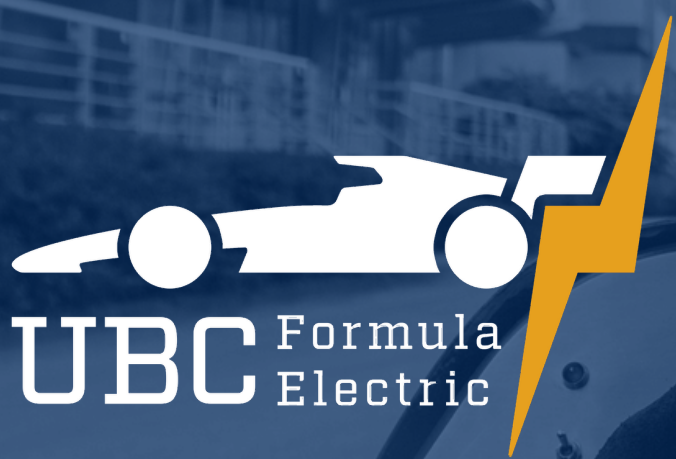
We're Hiring: Mechanical Engineers

Work on suspension, chassis, aerodynamics, drivetrain, and more!

As part of the
Mechanical Team
you can:

- ⚙️ Design and manufacture custom planetary gearboxes
- ⚙️ Learn to weld steel chassis
- ⚙️ Use modelling software to optimize suspension geometry
- ⚙️ Assemble high voltage battery packs
- ⚙️ Build ultra-lightweight carbon fiber parts





We're Hiring: Mechanical Engineers

Work on suspension, chassis, aerodynamics, drivetrain, and more!

Mechanical **Subteams**



⚙️ **Aerodynamics:** Designs, analyzes, manufactures, and optimizes aerodynamic components like front and rear wings using CAD, CFD simulations, and physical testing.

⚙️ **Accumulator:** Combines electrical and mechanical knowledge to design a custom battery pack, physically connecting hundreds of individual cells to reach 600V.

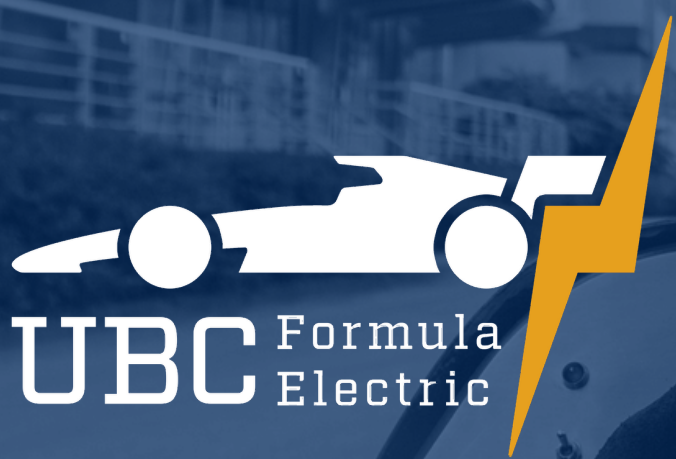


⚙️ **Drivetrain:** Utilizes mechanical and electrical knowledge to drive the car's wheels using power from the accumulator. Integrates power electronics, electric motors, gearboxes, and cooling systems to keep the car moving fast and efficiently.



⚙️ **Suspension:** Designs and builds components to maximize the vehicle's grip and create a balanced platform. Looking to improve on vehicle simulation, manufacturing processes, and suspension geometry.





We're Hiring: Mechanical Engineers

Work on suspension, chassis, aerodynamics, drivetrain, and more!

Mechanical Subteams

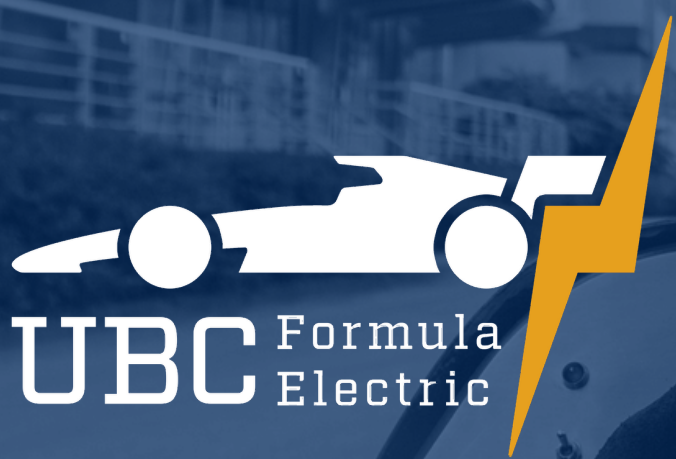
- ⚙️ **Chassis:** Integrates all other sub-team components into one working vehicle, balancing weight and strength and using FEA to select the best materials and manufacturing methods to ensure the highest possible performance.



Racing Engineers:

- ⚙️ Combines mechanical and software skill sets
- ⚙️ Develop vehicle and lap time simulations to help drive engineering decisions
- ⚙️ Organize testing days to collect data using software in order to validate simulations
- ⚙️ Manage test plan queue and work with other engineers to complete test plans
- ⚙️ Plan and organize drivers and equipment for competition
- ⚙️ Positions are **not limited to engineers**





We're Hiring: Electrical Engineers

Work on circuit boards, quad motors, battery management system and more!

As part of the **Electrical Team** you can:

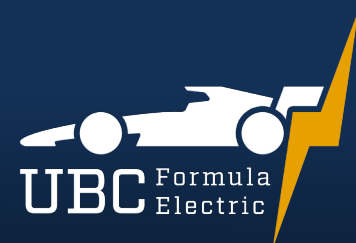
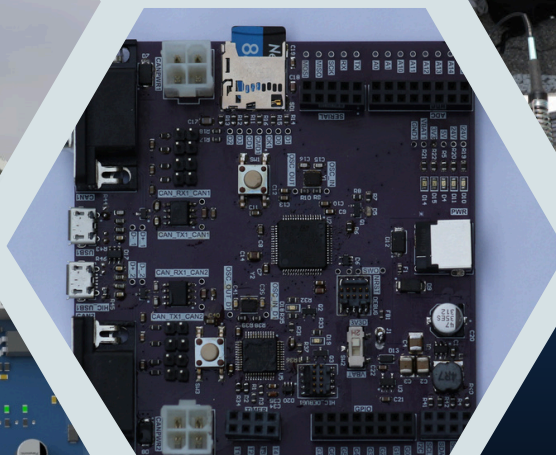
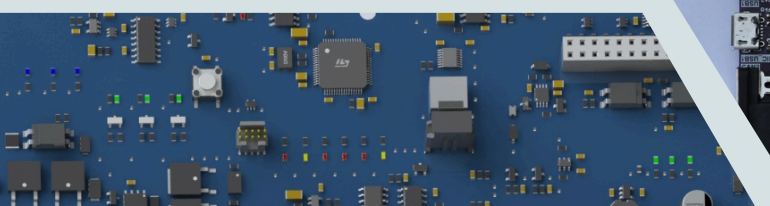
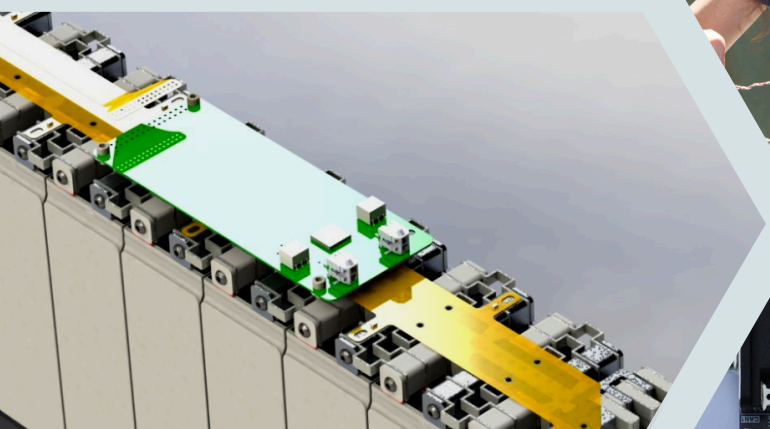
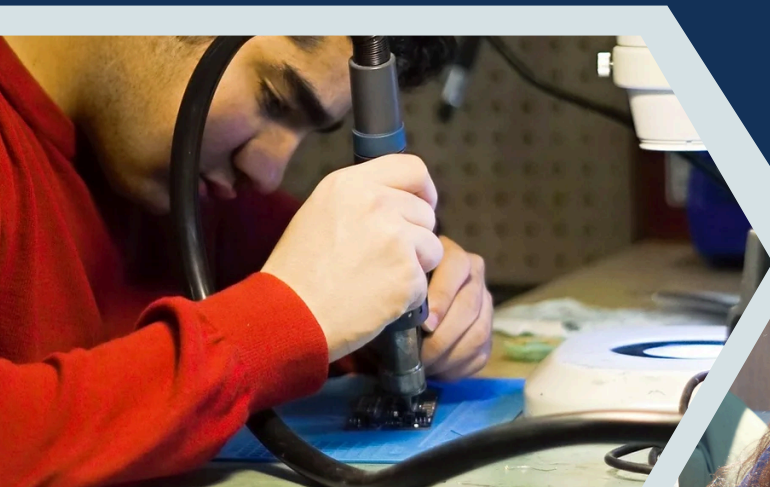
1. Develop industry-caliber circuit boards in Altium which implement the following:

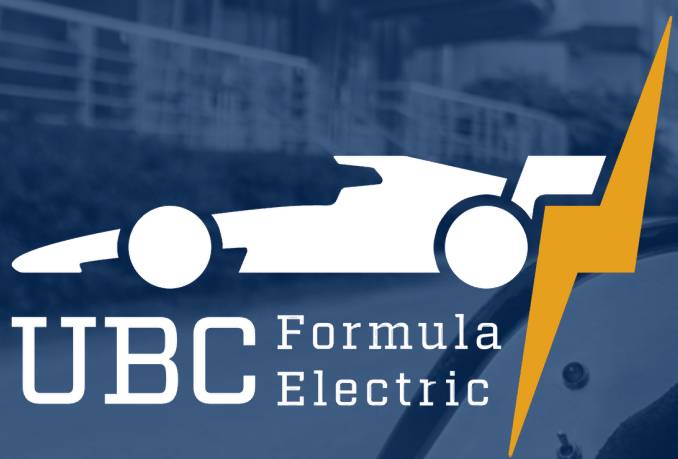
- ⚡ Power electronics
- ⚡ High voltage electronics
- ⚡ Analog signal processing
- ⚡ Digital logic
- ⚡ High speed data transmission



2. Interconnect a system of circuit boards to work together as a unified system

3. Validate and debug circuitry to assure functionality and reliability





We're Hiring: Electrical Engineers

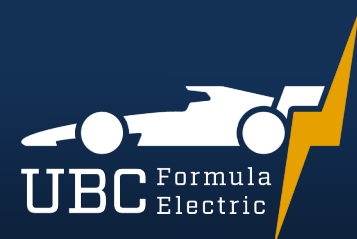
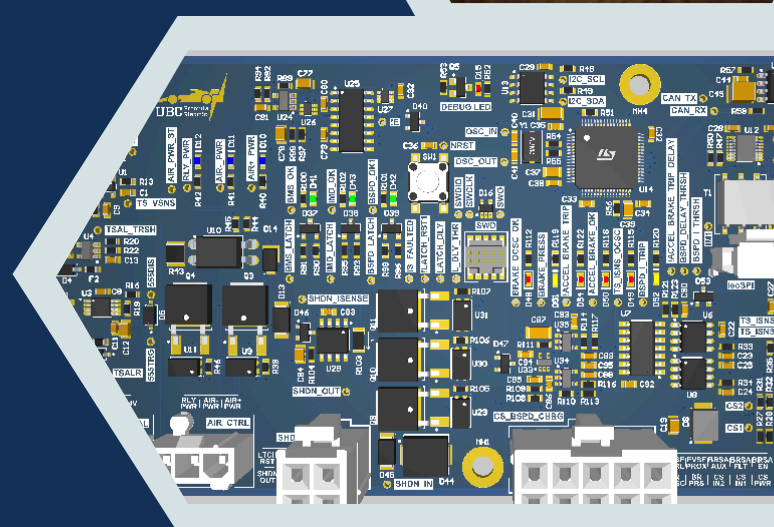
Work on circuit boards, quad motors, battery management system and more!

Electrical **Subteams**

⚡ **Low Voltage Vehicle Control Electronics:** Designs, assembles, and tests custom circuits and PCBs that are used for vehicle controls, sensor processing, and driver interface systems.

⚡ **High Voltage Battery Electronics:** Creates custom PCBs for high voltage battery management, isolated power delivery, and safety system circuitry.

⚡ **System Integration:** Designs and manufactures the vehicle wire harness. Responsible for safety systems, digital CAN-bus, and sensor interface harness routing.





Develop advanced embedded control systems, data-analysis software, and detailed simulation platforms

Develop advanced embedded control systems, data-analysis software, and detailed simulation platforms

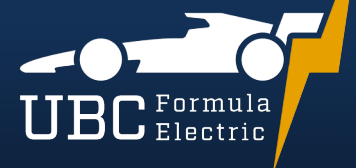
A close-up photograph of a person's hands typing on a laptop keyboard. The laptop screen is illuminated, showing a code editor with Python code. The code appears to be related to data analysis or machine learning, with comments and function calls visible. The image is framed by a white hexagonal border, which is part of a larger graphic design. In the background, there are blurred elements of a desk and other equipment, suggesting a professional or academic setting. The overall tone is focused and technical.

As part of the
Software Team
you can:

- Develop software tools for data-analysis, detailed simulation, and driver-vehicle interaction
- Develop embedded firmware for high-voltage battery management, torque control, and low voltage power distribution on our custom hardware system

Qualifications

-  Proficient in C or C++
-  Experience with hardware and/or microcontrollers preferred (Arduino, electrical classes, and hardware debugging knowledge are all an asset)





We're Hiring: Software Engineers

Develop advanced embedded control systems, data-analysis software, and detailed simulation platforms

Software **Subteams**

- </> LV:** Handles low voltage foundational operations of the vehicle, such as through feedback control loops or logic to enable functionality of the electrical systems.
- </> BMS/HV:** Battery management system for high voltage power distribution and enforces high voltage safety mechanisms.
- </> Data Acquisition:** Enables data-driven insights to analyze vehicle functionality and provide driver feedback.
- </> Vehicle Dynamics:** Optimizes performance by providing driver assists and smart torque distribution.





We're Hiring: Business Operations

The operations side of the team

We have the following **open positions**:

1. Financial Analysts

- Maintain internal financial account and purchase tracking.
- Perform analysis on financial spending to improve the team's use of funds.
- Gather ledgers from UBC purchase departments.
- Assist team members with reimbursement requests.



2. Content Creators and Communication Coordinators

- Responsible for developing the team's brand and marketing persona.
- Skilled in videography, editing, and scripting.
- Experience with Adobe Creative Cloud apps preferred.
- Produce content on social media platforms (e.g. Instagram, LinkedIn).
- Knowledge of online trends.



3. Website Developer

- Update and manage UBC Formula Electric's website.
- Experience with enhancing website SEO performance.
- Experience with coding a website.





We're Hiring:

Business Operations

The operations side of the team

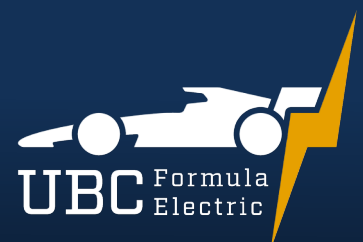


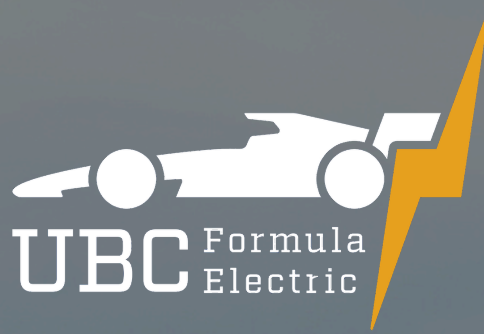
5. Sponsorship Associates

- Conduct outreach to various companies and individuals to fulfill our budget through sponsorship opportunities.
- Attend various events throughout the year to showcase our project.
- Maintain sponsorship tracking.
- Organize joint networking events with sponsors and the community.

6. Product Sponsorship Associate

- Responsible for conducting outreach to various companies and individuals to fulfill our budget through **product-based sponsorship opportunities**.
- Attend various events throughout the year to showcase our project.
- Maintain sponsorship tracking.
- Organize joint networking events with sponsors and the community.
- Able to communicate with engineers regarding possible product sponsorship opportunities/ has an engineering background.





APPLY NOW

<https://www.ubcformulaelectric.com/>

COME JOIN OUR ENGINEERING DESIGN TEAM

Applications Close
September 18 2026

EMAIL: BUSINESS@UBCFORMULAELECTRIC.COM