

Université de Sherbrooke
Groupe technique



Compétition de
Conception de
Circuits Imprimés

Sponsor pamphlet

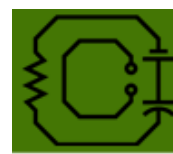
Document presented to future sponsors of C3I

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The date of: 2 November 2025



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1. Who are we?

C3I (Compétition de Conception de Circuits Imprimés (Printed Circuit Board Design Competition)) is a student technical group at the University of Sherbrooke that brings together enthusiasts of printed circuit board (PCB) design. Our mission is to provide a dynamic environment where students can explore various technologies, tackle real-world challenges, and develop practical skills in a collaborative and enriching setting.

Our initiatives:

Knowledge Sharing: Create a space for exchange where members share ideas, experiences, and skills to learn from one another and improve their PCB design abilities.

Workshops and Seminars: Organize regular training sessions led by experts and experienced students on a wide range of topics, from the basics of design to advanced practices, such as soldering and system integration.

Collaborative Projects: Encourage teamwork by developing tangible projects such as electronic gadgets, sensor modules, or embedded systems, while learning to manage a project from concept to functional prototype.

Technology Exploration: Offer sessions to explore new components, tools, and technological trends, often in collaboration with industry professionals.

All our projects are **Open Source**, reflecting our commitment to knowledge sharing and accessibility. We believe that innovation is most powerful when made available to everyone, fostering a collective and sustainable impact.

Joining C3I means participating in an adventure where creativity, technique, and collaboration turn ideas into concrete and inspiring achievements.



2. Activities

The C3I group offers a variety of activities to enhance members' knowledge and skills in printed circuit board (PCB) design. These initiatives foster hands-on learning, idea exchange, and collaboration.

- **Hands-on Workshops:**

We organize regular workshops to develop specific skills, including:

- Advanced PCB design techniques
- Use of CAD software (Computer-Aided Design)
- Soldering and assembly of electronic components
- PCB testing and troubleshooting

- **Thematic Seminars:**

Led by experts or experienced members, our seminars cover a wide range of topics, such as:

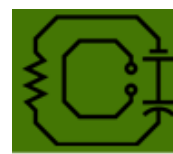
- Introduction to microcontrollers (MCU);
- Case studies of successful projects;
- Emerging technologies in PCB design;
- Safety and compliance standards in electronics.

- **C3I Competition:**

Each semester, the C3I group organizes an exciting PCB design competition open to all students. This event is designed to encourage innovation and allow participants to apply their knowledge in a collaborative and dynamic environment.

- **C3I Blitz Competition:**

An intense 12-hour design challenge where participants test their creativity and skills to create a PCB under specific constraints. This event is meant to foster innovation, teamwork, and mutual support.



3. Projects

The C3I projects offer members the opportunity to apply their knowledge and develop practical solutions.

Summer 2024: Hacker Mouse

A redesigned computer mouse with unique features, designed to explore the fundamentals of electronics and programming. This project emphasizes customization and the integration of modern technologies.

Fall 2024: PCB Ruler

A multifunctional ruler incorporating measurement tools and electronic components. This project combines practicality with innovative design, while introducing members to prototyping processes.

Winter 2025: Pomodoro

The challenge is to design a product inspired by the Pomodoro technique! Combining electronics and creative design, participants will develop an innovative tool to manage time and enhance productivity.

Fall 2025: Business Card

Participants can show off their creativity during this project, where they need to design a business card that represents them either through their skills, their learning capabilities or their imagination.

Winter 2026: Wearables

Next winter, our participants will have to design a project that can be worn by its users: a wearable item. They can aim to create a smart device that supports people in everyday life, or a minimalist electronic accessory. Sky is the limit!

C3I Blitz Project

A competition where members design and complete a printed circuit board (PCB) in just 24 hours. This project highlights creativity and ingenuity in a high-pressure environment. We have yet to decide what kind of design the competitors will have to accomplish.



4. Why support us?

Supporting our technical group is an investment in the future of motivated and innovative young talents. By backing us, you directly contribute to providing students with unique opportunities for personal and professional development. Thanks to your contributions, we can organize enriching activities, acquire specialized equipment, and create hands-on experiences that help develop skilled and engaged professionals.

We are committed to using every contribution transparently and effectively. All funds are strictly allocated to educational initiatives, technical projects, and events that maximize their impact on the student community.

Contributions help, among other things, to:

- Provide students with the opportunity to strengthen their skills in PCB design, electronics, engineering, technology, as well as collaboration and teamwork.
- Promote academic success and encourage student engagement in university life.
- Support learning through experimentation and solving real-world problems.
- Fund tangible educational projects that allow students to apply their theoretical knowledge.
- Foster innovation and creativity in the development of technical solutions.
- Enable the organization of events such as hands-on workshops, technical competitions, and educational conferences.
- Offer increased visibility to partner companies through strategic collaborations and public events.



5. Partnership Plans

The contribution of our partners is crucial to the success of our projects and activities. Contributions in time, services, or materials are evaluated in monetary equivalents. We offer various ways to enhance the visibility of your company. This is an ideal opportunity to attract passionate, motivated, and experienced engineers.

	Bronze 500\$	Silver 750\$	Gold 1500\$	Platinum 2500\$
Logo in the public workspace of C3I	✓	✓	✓	✓
Mention on the C3I website and a publication in your name	✓	✓	✓	✓
Logo on the Website with hyperlink		✓	✓	✓
Logo on the Group Banner		✓	✓	✓
Logo on Promotional T-Shirts			✓	✓
CV Database of all participants			✓	✓
Company Presentation to Students			✓	✓
A project in your company's colors				✓



6. Contact

For any questions, please reach out to this year's coordinator:

Jacob Turcotte

President and Co-founder of C3I

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For any comments or feedback on the document (errors, inconsistencies, etc.), please contact the person who has authored the document.