

# U of C MPG Co-Curricular Record

## Position Descriptions

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### MPG Level 1 Participant

The MPG Level 1 participant is engaged in gaining industry-related embedded systems experience as an extracurricular activity in the department of Electrical and Computer Engineering. The program compliments the core engineering curriculum with focus on practical, hands-on engineering experience. To participate in MPG, students must demonstrate a high level of commitment and dedication to attend weekly meetings and complete the program activities.

In the first term, participants attend course lectures to gain the background knowledge required to support the remainder of the program. They also participate in hardware labs to learn soldering skills to build the course development circuit board. If a student chooses not to solder a development board, he/she must demonstrate skills in soldering and still attend the soldering labs to assist other students or work on additional programming activities. Completion of either soldering or programming exercises is required for CCR recognition.

In the second term, students use their work from the first term to learn and practice firmware development. There are a series of exercises that must be completed to prove understanding of the topics covered. By the end of the term, students will demonstrate their new knowledge in a small competition that exercises the skills taught during the term.

To receive credit for MPG Level 1, participants must attend at least 80% of the lectures and labs offered in the year. Attendance will be tracked weekly. Consideration will be made for excused absences on a case-by-case basis if students alert the instructor prior to the class they will miss. All students must complete a course review and submit it by May 1 of the end of the academic year to confirm their submission for credit on the CCR.

### MPG Level 2 Participant

The MPG Level 2 participant is engaged in gaining industry-related embedded systems experience as an extracurricular activity in the department of Electrical and Computer Engineering. The program compliments the core engineering curriculum with focus on practical, hands-on engineering experience. To participate in MPG, students must demonstrate a high level of commitment and dedication to attend weekly meetings and complete the program activities.

In the first term, participants attend course lectures to gain the background knowledge required to support the remainder of the program, and hardware labs to learn soldering skills to build the course development circuit board. If a student chooses not to solder a development board, he/she must

demonstrate skills in soldering and still attend the soldering labs to assist other students. Completion of either soldering or programming exercises is required for CCR recognition.

In the second term, students use their work from the first term to learn and practice firmware development. There are a series of exercises that must be completed to prove understanding of the topics covered. By the end of the term, students will demonstrate their new knowledge in a one-on-one demonstration of the course project.

To receive credit for MPG Level 2, participants must attend at least 80% of the lectures and labs offered in the year. Attendance will be tracked weekly. Consideration will be made for excused absences on a case-by-case basis if students alert the instructor prior to the class they will miss. All students must complete a course review and submit it by May 1 of the end of the academic year to confirm their submission for credit on the CCR.

## **MPG Leader**

The MPG Leader is an undergraduate or graduate student who assists in delivering MPG lectures and labs. Responsibilities include working one-on-one with students to help them complete hardware and firmware development activities, and presenting course material on the topics covered in the program. Throughout the year, the MPG Leader will make presentations to either the entire class or smaller groups.

MPG Leaders must adequately prepare for each activity to ensure they can successfully present material and assist students with the exercises. Preparation will take about 1 hour for each activity. An MPG Leader must volunteer for a minimum of 10 activities over the duration of the program to be eligible to receive credit on the CCR. Participation will be scheduled and attendance will be tracked by the MPG supervisor who will be present for all MPG activities.