



MPG

Microprocessing

Re-engineering Engineering Education

One of the most common concerns expressed by new engineering graduates is that they will not have practical skills when they graduate; one of the most common concerns from industry is that engineering graduates do not have practical skills when they graduate. Engineering schools do an amazing job at teaching you to think and allowing you to sample the full spectrum of your discipline, however, mass education simply cannot do niche training. Fortunately, you can through MPG. Even after your first year of university, when most students select their discipline, you probably know what you are really interested in. If that interest has anything to do with microcontrollers, then you need MPG.

Hands-on experience is the essence of MPG. Development boards are custom-designed for the course. They are extremely versatile and can be used for many applications including connection to Arduino Shields and Engenuics Blades via the daughter board interface. Both boards use a powerful Cortex-M3 microcontroller from Atmel (SAM3U2C), have Nordic nRF51422 ANT+/BLE radio/Cortex-M0 processors, and include an on-board J-Link for full programming and debugging. The dev boards are the only cost for participating in MPG.

Free versions of IAR, Keil or any gcc-based ARM compiler can be used. All course material is open source and available online. Support is available through the MPG forum. This means that anyone can learn with MPG individually or in a group. While you are building all those technical skills, winning competitions and bursaries, and expanding your network, the MPG program is working hard for you. Our "Industry-Student Connection Program" (ISCP) connects you with industry from your 2nd year until the day you put on the iron ring.



There is no obligation or cost. The ISCP gives you the opportunity to essentially work with a company for nearly FOUR YEARS during your undergrad. It creates 4-month jobs for 2nd year students (or schools with 4-month co-op terms) and lets you hit the ground running for your work terms. Your Capstone project will be infinitely more useful. If you still love those MCUs when you graduate, you will probably already have a job and you will have a ton of experience to leverage a better salary. MPG can still be attended casually, but for those who really want to extract value the program will now grant completion certificates for each level and the overall ISCP.

Lastly, we want to grow our student leadership and are introducing a leadership bursary program. Get a successful MPG program going at your school; we'll give you cash. Of course, there are rules and requirements to this program! Can you do it? Absolutely. MPG first started as a student-led group without any resources. Now it is an established program with everything at your fingertips – all it takes is initiative.

Please contact mpg@engenuics.com or visit www.engenuics.com/mpg for more information about any part of MPG.