

Project Summary (150 words maximum)

This application is to support the development of a series of 2-hour Prototyping Workshops in electronics, software, and mechanical prototyping. The intent of these workshops is to give students experience in prototyping, physical problem-solving, and instrumentation earlier in their academic programs, developing greater student interest in developing skills necessary for inventive prototyping, and to develop greater engagement in a core first-year engineering course. Selection of tools and resources for the workshops will be focused on those which students can access after the workshops are completed (free or open-source software, low-cost hardware easily available from online vendors), allowing students to develop skills on their own. Initial TLEF funding will provide resources for two 2-hour workshops for all 700+ first-year Engineering Students through APSC 150. Initially these modules will be integrated with 1 of the 4 existing modules for the course, with the potential to tie into all 4 modules with future workshop topics.
