Second Joint Laureate
Applied Research

◆ **Project Title:** Software Defined Radio
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Abstract:

Design, implementation, and manufacturing of the multiband radio is performed. The product is a multiband (HF/VHF/UHF) military manpack software-defined radio. This transceiver covers the frequencies from 20MHz to 520MHz providing a variety of applications in ground, airborne, and maritime tactical communications. Using Software Defined Radio (SDR), voice communication could be made in different analog and digital modulations, and the ability of data or SMS transmitting and connecting to a GPS module are also accessible. The output power is adjustable in two modes of low and high power. Since this product is a software-based radio, it's easy to upgrade and add different processes on voice and data.