

Noon, Monday, 16th April (FAB155)

Design History and Technology of the Opal Movement Monitor

Andrew Greenberg, APDM Inc.

Abstract

The presentation will discuss the APDM, Inc. "Opal" human movement monitor. The Opal is a 2.4 GHz, mesh-synchronized wireless 6 degree-of-freedom inertial measurement unit meant to help objectively measure human movement. The Opal is meant to help quantify movement disorders, such as Parkinson's Disease and MS. For more information, please see <http://www.apdm.com/>.

Details will include the origins and requirements of the monitor, it's genesis in a PSU ECE undergraduate capstone, the technology behind it, it's v1.0 version, and finally, plans for v2.

Biography

Andrew is a co-founder and Chief Technology Officer of APDM. He is responsible for embedded systems design and manufacturing. He received an MS degree in electrical and computer engineering from Portland State University, and brings over 20 years of experience in embedded systems development.