

Seminar Announcement
Thursday, 12 February 2009
11 a.m. - noon
North Classroom 2609, Downtown Denver Campus

Investigation and Design of Embedded Systems for Disability and Chronic Illness Management

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Abstract: With a growing aging and disabled population, friendly, secure, and ubiquitous embedded systems are needed to assist people to live comfortably in their home and function in a greater community. Hospitals are preparing for this future by collaborating with engineers to design and implement home health monitoring systems and rehabilitation devices to provide safe and reliable response times for remote case management. Communities are also gearing up for a future where residents have a diverse set of needs to interact with each other and perform their daily routines independently. Our goal is to make this as easy as possible by innovating with current and future embedded systems that are incorporate into the infrastructure. Examples of our projects are provided along with future plans that are in development.

Biosketch: Dr. Kimberly E. Newman received her Ph.D. from the Georgia Institute of Technology (GT) as part of the Assembly and Test group in the Packaging Research Center. She is currently the P.I. on a grant from the National Science Foundation for Undergraduate Design Projects to Aid Persons with Disabilities in collaboration with medical professionals at Denver Health Medical Center. In 2005, she became a Senior Member of the IEEE through service with the Computer Society International Design Competition. Her membership includes the Computer Society and Components, Packaging, and Manufacturing Technology (CPMT) Society.