Proposal to Change MSOE CE PEOs
(Program Educational Objectives)

Friday, December 2, 2011

Rationale
1. Our understanding of what’s important has evolved through IAC input, student and alumni feedback including survey data, and faculty experience.
2. ABET definition changed a couple of years ago: “broad statements that describe what graduates are expected to attain within a few years of graduation”

Criteria
1. Must go beyond what CE graduates can do at graduation
2. Must be measurable (alumni & employer surveys, …)
3. Must meet constituents’ needs
4. Must be consistent with MSOE Mission Statement: “MSOE provides a sustained interactive educational climate for students to become well-rounded, technologically experienced graduates and highly productive professionals and leaders.”

Proposed PEOs
Within a few years of graduation, CE alumni will

1. have a record of successful product development through delivered products, patent applications, etc.
2. provide both informal and formal leadership (e.g., lead specific team efforts or function as team leader, project manager, etc.).
3. develop expert knowledge in at least one area that is seen as an asset by colleagues and management.

Current PEOs
Computer Engineering alumni

1. demonstrate the skills that society commonly expects of members of the engineering profession, and recognize the need to include service to society in their career plans.
2. possess the skills required to function as engineers in the areas of embedded systems, embedded software, and computer systems.
3. demonstrate personal and professional skills allowing them to function as productive members of an engineering team. Professional skills include and understanding of common industrial practices that will allow them to excel in industrial, laboratory, or entrepreneurial venues.
4. will recognize the ethical, legal, and societal issues involved in the practice of engineering.
5. know the many career options open to computer engineering graduates, and understand the need for life-long learning and the many ways in which such learning can take place.