

# MICROELECTRONICS EDUCATION AS WORKFORCE DEVELOPMENT

*David L. Landis*

The Pittsburgh Digital Greenhouse  
425 6<sup>th</sup> Ave, Ste 1850, Pittsburgh, PA 15219-1819  
davel@digitalgreenhouse.com

*James F. Cain*

University of Pittsburgh, EE Dept.  
348 BEH, Pittsburgh, PA 15261  
cain@ee.pitt.edu

## ABSTRACT

*This paper describes the microelectronic design education initiatives sponsored by the Pittsburgh Digital Greenhouse. These programs were created to support a growing regional cluster of microelectronic system design companies. Both resident instruction and continuing education initiatives are described, and progress to date is highlighted.*

## 1. INTRODUCTION & OVERVIEW

The Pittsburgh Digital Greenhouse (PDG) is a not-for-profit economic development initiative comprising 25 member companies, and with major sponsorship from the Commonwealth of Pennsylvania. The PDG was started in June of 1999 to build an industry cluster around the application of System-On-a-Chip (SoC) technology in the digital multimedia and digital networking markets. The PDG sponsors a broad range of programs, from research to talent recruitment to business incubation (see [www.digitalgreenhouse.com](http://www.digitalgreenhouse.com) for more information). This paper describes our closely interrelated Education initiatives: a Continuing Education Short Course program, and a Collaborative Curriculum between our three member schools (Carnegie Mellon University, the Pennsylvania State University, and the University of Pittsburgh).

The Continuing Education project addresses near-term workforce development needs by creating and delivering System-on-a-Chip (SoC) and related microelectronics technology short courses. This is enhancing the skills of practicing engineers in technical areas that are relevant to our member companies. Details of the SoC Continuing Education project are provided in Section 2. The complementary Collaborative SoC Curriculum project is building the base of University students and faculty who have the skills needed to design the next generation of SoC products. This project addresses longer-term workforce development by helping to improve the quality and quantity of MS (and BS) degree engineers and scientists with advanced SoC design skills; details of this program are provided in Section 3.

The common denominator in both of these programs is the need to provide students with a real-world industrial design experience, using commercial Computer-Aided Design (CAD) tools. The development and sustainment of this essential design-support infrastructure, the PDG Digital Sandbox, is described in Section 4. Finally, Section 5 provides a summary of progress to date and status of ongoing PDG Education and Training activities.

## 2. CONTINUING EDUCATION

The PDG continuing education program is designed to enhance the skills base of practicing engineers and technical personnel. Program resources are designated to build the base of engineering and technical skills within PDG member companies, and to provide technical training and re-training opportunities for practicing engineers in the region. Through a competitive public RFP and award, three System on a Chip (SoC) Design courses have already been developed for the PDG by the University of Pittsburgh.

A one-day SoC Design Overview short course is targeted at a broad audience interested in SoC design, including system, hardware, and software engineers and engineering managers as well as general management with a technical background. Two week-long courses (System Level SoC Design and Structural Level SoC Design) are targeted toward design engineers and first level managers with embedded systems, board level, or IC design experience who want to transition to the design of SoC ICs. Computer-based eCourse modules have also been developed for the SoC Design Overview and for a HW /SW Codesign & Coverification course. Catalog descriptions and detailed PDG short course outlines are linked on the [www.digitalgreenhouse.com](http://www.digitalgreenhouse.com) web site.

The PDG has offered these short courses directly to the engineering public, and is helping its member companies to customize course materials for more effective internal use. Additional SoC Short Courses are planned for future development, and the PDG is currently working with its member companies to identify courses that offer significantly benefit. The following strawman topic list was generated, and will be winnowed based on member interest:

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