ECE Academy Introductory Presentation

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ECE
About

- 2014 – Ph.D., ECE, Old Dominion University, Norfolk, VA
- 2010 – B.S., CpE, Old Dominion University, Norfolk, VA
- Teaching and Research Interests:
  - Engineering Education
  - Embedded Systems
  - Computer Architecture
  - Hardware Security
  - Low-Power Computing
Involvement at Missouri S&T

- **Classes Taught/Scheduled to Teach:**
  - Introduction to Computer Engineering (F14, SP15)
  - Digital Systems Design (F14, F15)
  - Principles of Computer Architecture (SP15)
  - Digital Network Design (S15)
  - Senior Design I and II (F15)

- **Advisor:**
  - IEEE Student Branch – Robotics (SP15)
    - Region 5 competition April 18, competing for the first time in the past two years
  - Solar Car Team (F14)
    - Custom Voltage and Temperature Management System Design Project

- **Interviewer, Chancellor’s Scholarship (F14)**
- **Judge, Undergraduate Research Conference (SP15)**
Teaching Philosophy

• Interactive classroom
  – Integrate as many hands-on applications of theory discussed in class in assignments

• Problem solving and critical thinking skills
  – Develop interesting and meaningful assignments

• Experiential learning
  – Go beyond the usual approaches of teaching and learning

• Lifelong learning
  – Present and discuss new developments related to course during lecture
Future Plans

• Continue improving teaching skills
  – Attend teaching-related workshops and conferences
  – Conduct engineering education research by pursuing externally-funded research opportunities
  – Use technology to improve understanding and participation

• Continue improving Senior Design course sequence
  – Increase course consistency by teaching the sequence every semester

• Advise students in undergraduate research
  – Undergraduate research as a bridge between teaching and research, active form of learning

• Introduce new course(s) focusing on Digital Design
Thank you!

Question?