Status of Intel Atom Processor based Curriculum Enhancement at Howard University
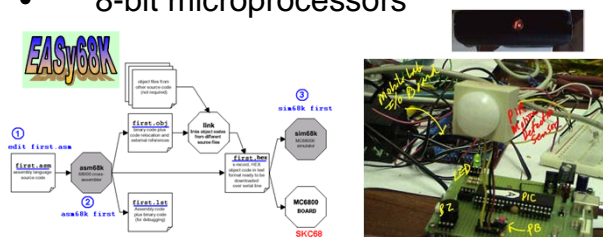
Charles Kim, Ph.D.

Electrical and Computer Engineering
Howard University
ckim@howard.edu

- **Intel Embedded Curriculum Grant: $20,000 + 10 Tunnel Creeks + 1 Stellarton**
- **Project Period: June 2011 – May 2012**
- **Student Workers: Ravindranath Jaglal (Graduate) + Isaac Collins (Graduate) + Gerard Spivey (Undergraduate)**
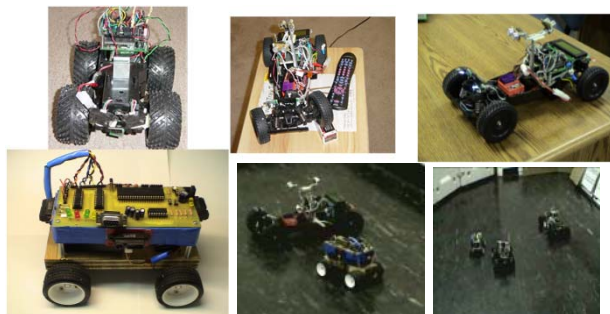
UNTIL SPRING 2011

Fall Semester: EECE460 Microcomputer

- 8-bit microcomputers
- 8-bit microprocessors

Spring Semester: EECE456 Embedded Systems Design

- PIC based robot projects

FALL 2011

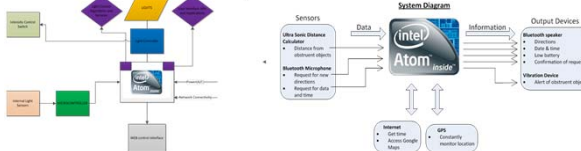### EECE460 Microcomputer

- 32-bit Intel Architecture
- Introduction of Intel Atom processor
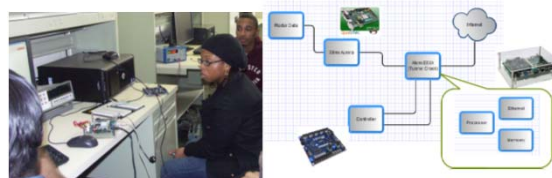

SPRING 2012

EECE 456 Embedded Systems Design

- **Intel Cup Competition**
  - Green Lighting (Main Team)
  - Blind Assistant (Wild Card Team)

- **Student Projects**
  - Video Reception from Swallable Capsule
  - On-demand Fiber to Ethernet Data Conversion

- **Teaching Resource Development Project**
  - Currier -Bot