

Senior Capstone Projects

represent the culmination of the educational experience, integrating classroom with real world problems. Students handle open-ended engineering and computational problems whose solutions require a synthesis of engineering knowledge, computational analysis, creativity, market needs, safety and esthetics. Projects are carried out by students and supervised by instructors and industry mentors.

Panel of Judges

Representatives from Civil Engineering, Electrical and Computer Engineering, and Mechanical Engineering Industrial Advisory Board members.

Acknowledgements

National Science Foundation (NSF)
Air Force Research Laboratory
Department of Energy, National Nuclear Security Administration
(DOE-NNSA)
District of Columbia Government Agencies
District of Columbia Water Resources Research Institute (WRRI)
Hung Ha, IT Specialist
Gebretensae Tzadu, IT Specialist
Pablo Sanchez Guerrero, Laboratory Engineer



Senior Capstone Project Presentations

Civil Engineering
Electrical and Computer Engineering
Mechanical Engineering

Monday, May 1, 2017
10:00am - 3:00pm

Building 44/A03

4200 Connecticut Avenue NW, Washington, DC 20008
www.udc.edu/seas

Senior Capstone Project Presentations
May 1, 2017

10:00am Civil Engineering

Civil Engineering System Analysis and Design

**Real World Projects: Small Site Development, Bridge
Hydraulic Analysis, Large Site Urban Development**

Olasupo Akinleye, Ibrahim Almazyad, Andrew Asiimwe,
Kwame A. Baah, Niku Chudal, Kassu A Dadi, Faisal El
Awamleh, Behailu N. Kifle, Suraj Narain, Laura C. Rojas ,
Mario A. Romero, Brahim S. Sidi M'hamed, and Meron M.
Ureggessa

Advisors - Dr. Pradeep Behera, PE and Dr. Ahmet
Zeytinci, PE

12:30pm Electrical and Computer Engineering

**Wireless Ambulatory Suspension and Rehabilitation
Apparatus for Stroke Victims**

Ibrahim Abbas, Omar Abbas, and Tilaye Alemayehu

Interest - Devdas Shetty, Ph.D., PE, United States Patent
Number: 5,189,490

Advisors - Dr. Esther T. Ososanya and Dr. Devdas Shetty, PE

1:30pm Mechanical Engineering

**Portable Heat Stress Prevention Devices for Body
Temperature Regulation**

Tyler Alyssa Saunders, Ibrahim Bagais

Sponsor/External Interest - Air Force Research Laboratory
Advisor - Dr. Jiajun Xu

2:30pm Project Demos
