

SWARTHMORE COLLEGE ENGINEERING CLASS OF 2018 E90 PRESENTATIONS

Monday, May 7

Time	Presenter	Title	Advisor
9:00 am	Robin Htun	Low-Cost Solar Thermal Concentrator Design	Carr Everbach
9:15 am	Malia Scott Sierra Spencer	Life Cycle Assessment of Biofuel Produced from Waste Cooking Oil	Nelson Macken
9:45 am	Katherine Huang	Smart Bikeshare Rack	Erik Cheever
10:00 am	David Xu	Controller Design for Complex Path Following of the Turtlebot	Michael Piovoso
10:15 am	<i>Break</i>		
10:45 am	Alan Zhao	Exploring the Boundaries of Facial Recognition Using an Animatronic Face Robot	Carr Everbach
11:00 am	Sydney Andersen	Antenna Position Control System	Lynne Molter
11:15 am	Mark Gee	Home Security System: Window and Door Sensing	Lynne Molter
11:30 am	Emma Giordano	Design and Analysis of Foldable Structures	Carr Everbach
11:45 am	Omodayo Origenwa	Ultrasonic Metering	Carr Everbach
12:00 pm	<i>Lunch</i>		
1:00 pm	Alex Robey	Computationally Expediting Fourier Ptychographic Microscopy	Vidya Ganapati
1:15 pm	Kyrstyn Ong	Fuzzy Logic Control of a Double Inverted Pendulum	Michael Piovoso
1:30 pm	Ross Bednar Sam Merritt	Development and Analysis of Phosphorescent and Translucent Concrete	Faruq Siddiqui
2:00 pm	<i>Break</i>		
2:30 pm	James Lammers	Covered Bike Structure Design	Faruq Siddiqui
2:45 pm	Isabelle Branco-Lo	Solar Powered Scoreboard	Carr Everbach
3:00 pm	Emily Cai Owen Kephart Thomas Sheehan	Autonomous Drone Navigation with SLAM	Allan Moser
3:45 pm	<i>Session Ends</i>		

SC 199 - Monday-Tuesday, May 7-8

SWARTHMORE COLLEGE ENGINEERING CLASS OF 2018 E90 PRESENTATIONS

Tuesday, May 8

Time	Presenter	Title	Advisor
9:00 am	Natasha Nogueira	High Altitude Solar Energy System	Carr Everbach
9:15 am	Zachary Lamberty Minseo Park	Visualization of Core-Annular Microfluidic Flows	Nelson Macken
9:45 am	Matthew Olivencia- Jacques	The Runner's Wearable	Erik Cheever
10:00 am	Angelina Abitino and Won Chung	Smart Home with Automated Lip Reading using Computer Vision and Machine Learning	Vidya Ganapati
10:30 am	<i>Break</i>		
11:00 am	Harry Huchra	Designing a Wearable Wireless Bioimpedance Monitor	Maggie Delano
11:15 am	Alison Rosenzweig	Large Scale Art with Mobile Robots	Maggie Delano
11:30 am	Gabriel Perez-Putnam Tiffany Yu	General Case Automated Control of Window Shades with Sample Applications	Maggie Delano
12:00 pm	<i>Lunch</i>		
1:00 pm	Kwame Asiedu	Fluorescence Microscopy Computational Model	Vidya Ganapati
1:15 pm	Charlotte Iwasaki	Better Phase Imaging with Prior Information	Vidya Ganapati
1:30 pm	Ahmet Kayagil	Building a Cob Hut	Carr Everbach Faruq Siddiqui
1:45 pm	Andrew Jansen Brandon Yeung	Modification and Development of a Hydrogen Fuel-Cell Powered Vehicle	Nelson Macken
2:15 pm	<i>Break</i>		
2:45 pm	James Eberle Matt Johnson	Custom Clay Tile System	Erik Cheever
3:15 pm	Justin Chandrasekhar	Solar Recharging Station for Autonomous Driving Vehicle	Carr Everbach
3:30 pm	Yosuke Higashi Matthew Ho Joshua Powell	Fully Autonomous Self-Driving Vehicle	Carr Everbach Michael Piovoso
4:15 pm	<i>Session Ends</i>		

SC 199 - Monday-Tuesday, May 7-8