

BSME Capstone Showcase Thursday, June 7, 2018

Engineering Building, Portland State University
1930 SW Fourth Avenue, Portland

12:00 – 1:50 PM Presentations in rooms 102, 315 and 510
2:00 – 4:30 PM Poster session and prototype displays in the atrium

Engineering Building Room 102

Time	Project	Sponsor	Topic	Advisor
12:05	Design guidelines for the use of 3D printed tooling for rapid prototyping	3D Systems	3D printing	Lee
12:23	A device to simulate road debris impact that damages aerodynamic fairings	Daimler Trucks of North America	Testing in industry	Wern
12:41	A system to log truck position during endurance testing on a test track	Daimler Trucks of North America	Testing in industry	Recktenwald
12:59	A system for real-time feedback on inclination of a fork-lift.	Hyster-Yale	New products	Yi
13:17	An electrically actuated mechanism for laterally shifting the load on fork-lift	Hyster-Yale	New products	Etesami
13:35	A fixture to aid in accurate installation of duct flanges	Streimer Sheet Metal	Manufacturing	Steingrimsson

Engineering Building Room 315

Time	Project	Sponsor	Topic	Advisor
12:05	A computer controlled treadmill for test bipedal robots	Dr. Alex Hunt	Research devices	Turcic
12:23	Use a dielectric electroactive polymer to create a small scale air mover	Intel	Research devices	Weislogel
12:41	A foldable and pocketable structure for a flexible display screen	Intel	New products	Etesami
12:59	A passive cooling system for smart home device with high power consumption	Intel	New products	Recktenwald
13:17	A device for measure flexure of high performance windsurfing hydrofoils	Kean Rogers	Research devices	Zareh
13:35	A device for automated manufacturing of traps for spider mites	Read Band Traps	Manufacturing	Tretheway

Engineering Building Room 510

Time	Project	Sponsor	Topic	Advisor
12:05	A device for performing three different tests on 3D printed material	Dr. Faryar Etesami	3D printing	Jiao
12:23	Antenna systems that will automatically deploy after being released into low earth orbit	Portland State Aerospace Society	Space applications	Recktenwald
12:41	A low-cost, reliable and adjustable-height table for use in classrooms by students in wheelchairs	PSU Disability Resource Center	Human-centered de	Meekisho
12:59	A device capable of measuring drag and lift on airfoils for an open wheel race car.	Viking Motorsports	Research devices	Cal
13:17	A system for data collection and control of a two-stage compressor.	Windward community	Alternative energy	Gall
13:35	-- no presentation			