## MECHANICAL ENGINEERING FACULTY

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen Robinson</td>
<td>Professor, 1998–, Raymond J. Lane Willian J. Brown Professor, 2002–, Distinguished Professor and Department Head, 2013–</td>
</tr>
<tr>
<td>Paul Steif</td>
<td>Professor, 1983–, Associate Department Head, 2013–</td>
</tr>
<tr>
<td>Shelley Anna</td>
<td>Professor, 2003–</td>
</tr>
<tr>
<td>Mark Bedillion</td>
<td>Associate Teaching Professor, 2016–</td>
</tr>
<tr>
<td>Jack Beuth</td>
<td>Professor, 1992–</td>
</tr>
<tr>
<td>Jonathan Cagan</td>
<td>George Tallman &amp; Florence Barrett Ladd Professor, 1990–, and Associate Dean, 2015–</td>
</tr>
<tr>
<td>Steven Collins</td>
<td>Associate Professor, 2010–</td>
</tr>
<tr>
<td>Maarten de Boer</td>
<td>Professor, 2007–</td>
</tr>
<tr>
<td>Jimmy Hsia</td>
<td>Professor, 2015–</td>
</tr>
<tr>
<td>B. Rejia Jayan</td>
<td>Assistant Professor, 2015–</td>
</tr>
<tr>
<td>Aaron Johnson</td>
<td>Assistant Professor, 2016–</td>
</tr>
<tr>
<td>Levent Burak Kara</td>
<td>Professor, 2007–</td>
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<tr>
<td>Philip LeDuc</td>
<td>William J. Brown Professor, 2002–</td>
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<tr>
<td>Shawn Litster</td>
<td>Associate Professor, 2008–</td>
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<tr>
<td>Carmel Majidi</td>
<td>Associate Professor, 2011–</td>
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<tr>
<td>Jonathan Malen</td>
<td>Associate Professor, 2009–</td>
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<tr>
<td>Alan Mcgaughey</td>
<td>Professor, 2005–</td>
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<tr>
<td>Jeremy Michalek</td>
<td>Professor, 2005–</td>
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<tr>
<td>O. Burak Ozdoganlar</td>
<td>Ver Planck Professor, 2004–</td>
</tr>
<tr>
<td>Albert Presto</td>
<td>Assistant Research Professor, 2012–</td>
</tr>
<tr>
<td>David Quinn</td>
<td>Special Faculty, 2016–</td>
</tr>
<tr>
<td>Yoed Rabin</td>
<td>Professor, 2000–</td>
</tr>
<tr>
<td>Edward Rubin</td>
<td>Alumni Chair Professor, 1969–</td>
</tr>
<tr>
<td>Sheng Shen</td>
<td>Associate Professor, 2011–</td>
</tr>
<tr>
<td>Kenji Shimada</td>
<td>Theodore Ahrens Professor of Engineering, 1996–</td>
</tr>
<tr>
<td>Satbir Singh</td>
<td>Assistant Teaching Professor, 2012–</td>
</tr>
<tr>
<td>Koushil Sreenath</td>
<td>Assistant Professor, 2013–</td>
</tr>
<tr>
<td>Ryan Sullivan</td>
<td>Assistant Professor, 2012–</td>
</tr>
<tr>
<td>Subra Suresh</td>
<td>President, Carnegie Mellon University</td>
</tr>
<tr>
<td>Rebecca Taylor</td>
<td>Assistant Professor, 2016–</td>
</tr>
<tr>
<td>Venkat Viswanathan</td>
<td>Assistant Professor, 2014–</td>
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<tr>
<td>Kate Whitefoot</td>
<td>Assistant Professor, 2016–</td>
</tr>
<tr>
<td>Shi-Chune Yao</td>
<td>Professor, 1977–</td>
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<tr>
<td>Yongjie Jessica Zhang</td>
<td>Professor, 2007–</td>
</tr>
<tr>
<td>Adnan Akay</td>
<td>Lord Professor and Head, Emeritus, 1992–</td>
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<tr>
<td>Norman Chigier</td>
<td>Professor, Emeritus, 1981–</td>
</tr>
<tr>
<td>Jerry Griffin</td>
<td>William J. Brown Professor, Emeritus, 1981–</td>
</tr>
<tr>
<td>Wilfred Rouleau</td>
<td>Professor, Emeritus, 1954–</td>
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</tbody>
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## DEPARTMENT OF MECHANICAL ENGINEERING

CONFERRING OF DEGREES AND AWARDS CEREMONY

MAY 20, 2017
The Design Expo Winners, selected by attendee vote, conceptualize and implement novel product ideas through a formal design process in the senior capstone classes.

Awardees:
**Overall best Design - Fall**
Core 3 Drink Stabilizer
Team member names: Andreas Fatschel, Anthony Rueda, Nickolas Halbedi, Ryan Pearce, Anthony Rueda, Nathaniel Thompson

**Overall best design - Spring**
Multi-color Pancake printer
Team Member names: Justin Abel, Osvaldo Chimalpocapa, Aaron Tian, Joshua Fuhrman

**Overall best design, Section B - Spring**
"TruLie"
Team Member names: Samer Abdelmoty, Andrew Chellman, Nadia Florman, Alyssa Meyer, Stephen Scott, Alex Woodward

Department Research Honors recognizes graduating seniors who meet rigorous academic criteria and complete a two-semester research project under the supervision of a Mechanical Engineering faculty member.

Awardees:
**Frank Bello IV** Jon Cagan
"Analyzing Cognitive Design Process via Machine Learning"

**Nicole Bustos** Alan McGaughey
"Model for predicting maximum focused ultrasound induced cavitation bubble size in soft material"

**Turga Ganapathy** Jon Malen
"Near-Field Thermal Radiation and Gas Conduction in a Nanoscale Gap Measured by Frequency Domain Thermoreflectance (FDTIR)"

**Kyun Min Lee** Kenji Shimada
"Computational Method for Complex Geometric Patterns on 3D Printed Customizable Jewelry"

**Alexander Russell** Satbir Singh
"Direct Numerical Simulations (DNS) of Aerosol Deposition in Turbulent Flows"

**Allan Wang** Koushil Sreenath
"Visual System for Biped Robotic Walking on Stepping-stones"

**June Williams** Jon Cagan
"Impact of Environmental Stimuli on the Design Process"

**Core 3 Drink Stabilizer**
Team Member names: Andreas Fatschel, Anthony Rueda, Nickolas Halbedi, Ryan Pearce, Anthony Rueda, Nathaniel Thompson

**Multi-color Pancake printer**
Team Member names: Justin Abel, Osvaldo Chimalpocapa, Aaron Tian, Joshua Fuhrman

**"TruLie"**
Team Member names: Samer Abdelmoty, Andrew Chellman, Nadia Florman, Alyssa Meyer, Stephen Scott, Alex Woodward

The Bennett and Forstall Awards are given for excellence in Mechanical Engineering.

**Bennett Awardees:** Andrew Chellman, Jason Dynes, Alex Woodward
**Forstall Awardees:** Melyssa Eigen, Yichu Jin, Margaret Anne Smith

The Graduate Research Symposium Awards recognize Master of Science research excellence based on presentations at the Mechanical Engineering Graduate Research Symposium on March 31, 2017.

**Ayush Agrawal:** "Controllers for Bipedal Robot Navigation"
**Paul Choi:** "In-Operation Imaging of Dendrites Using Nanoscale X-Ray Computed Tomography and Epoxy-Free Sample Assembly"
**Purva Joshi:** "Computerized Planning of Prostate Cryosurgery and Shape Considerations"
**Richard Ren:** "Deformed State Lattice Planning"

The Teaching Assistant Awards are presented to the best graduate student teaching assistant Fall and Spring, as evaluated by students in their class.

Awardees:
**TA Fall 2016 – Oleg Spasnikov**
**TA Spring 2017 – Thomas Brubaker**

The Doctoral Research Award honors a top PhD student for outstanding achievements in research over the course of graduate study.

**Christopher McComb**

The Jeremiah Mpazgeze Graduate Student Service Award recognizes service and contributions to the graduate student community by both a Master’s and Ph.D. student.

Awardee:
**MS Student – Anchi Sood**
**PhD Student – Luke Scime**

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The Judith A. Resnik Award was established by Carnegie Mellon University in 1990 to honor the life and impact of Challenger astronaut and alumna, Judith Resnik (E 1970). The award is given to recognize and encourage an exceptional senior woman graduating with an undergraduate technical course of study. The awardee must be pursuing graduate or professional training in a technical field.

Awardee:
**Nicole Bustos**