



DESIGN CHALLENGE

**2016- 2017**

Media Contact: Nancy Easterbrook

Office: 650-721-7997

Email: [neasterb@stanford.edu](mailto:neasterb@stanford.edu)

**FOR IMMEDIATE RELEASE**

## **Stanford Center on Longevity Design Challenge Winners Announced**

*Annual Design Challenge winning group from Pakistan*

**March 30, 2017, Stanford, CA --** The Stanford Center on Longevity today named “TAME,” a student entry from the National University of Science & Technology (NUST) in Islamabad, Pakistan, as the first-place winner of the 2016-2017 Design Challenge competition. The team from NUST presented their anti-tremor prototype to win the \$10,000 grand prize, beating out over 75 entries during the course of the competition. The TAME design is a wearable device providing real-time pathological wrist tremor suppression, thus enabling activities such as dressing, eating, and grasping that are keys to daily independence.

The second-place winner was Rendevar from the Massachusetts Institute of Technology, and third place went to Upo from Virginia Tech.



*The 2016-2017 Design Challenge finalists*

This year's Design Challenge competition was focused on products and services innovating aging in place. The competition is open to all university students from around the world who want to design products and services which optimize long life for us all. All finalists receive \$1,000 to build a prototype and travel expenses are covered to bring the teams to Stanford University to present their designs to a panel of renowned industry, academic, and government leaders. Additionally, all finalists spend the day after the competition at the Stanford Graduate School of Business to receive entrepreneurial guidance on taking their product/service to market.

Here's a closer look at this year's winners and finalists:

### **FIRST PRIZE**

#### **TAME**

**National University of Sciences and Technology, Islamabad, Pakistan**

Tame is a wearable device for real-time pathological wrist tremor suppression that gives back control to tremor patients for doing daily tasks.

The device has a sensor near the wrist which tracks the wearer's tremor profile and electrodes that stimulate the muscles to counteract the tremor and suppress it. Instead of a conventional glove, TAME is a wearable device, small and light weight enough to be discreetly worn under a shirt. The device's sensors and electrodes correspond to positions recommended by neurologists and physiotherapists. TAME has 2 variants; a sleeve, and a wearable with retractable wires.



#### **TREMOR ACQUISITION AND MINIMIZATION**

#### **DEVICE CONCEPT DESIGN**



### **SECOND PRIZE**

#### **Rendever**

**Massachusetts Institute of Technology, Cambridge, MA**

Rendever is a virtual reality platform designed to improve the quality of life of older adults.

Rendever's VR experience allows older adults to visit their childhood homes, travel the world, and connect with family and friends. The content is intended to inspire more

conversations, and brings new stimulating experiences to the daily lives of users. The system uses a tablet that controls the experience either on-site or remotely for caregivers, and includes hundreds of hours of content including therapy and lesson plans.



### **THIRD PRIZE**

#### **Uppo**

#### **Virginia Tech, Virginia**

Uppo is a mobility device that maintains the user's sense of security without compromising posture.

A rollator walker, Uppo has an arm rest at a high and wide position, which reinforces scapular retraction –thus encouraging better posture. The walker is also collapsible and compact enough to be transported easily. This walker will help with mobility issue faced by many older people, allowing them to maneuver independently and safely outside their homes.



## **FINALISTS**

**Timtim por Timtim**, University of Sao Paulo, Sao Paulo, Brazil

Classes designed for people aged 60 and over, that explain the technology most relevant to their lives, in a downloadable format.

**Smart-Lift**, University of Waterloo, Waterloo, Canada

A sit-to-stand device that helps prevent strains and injury when moving in and out of a chair.

**Seat-Case**, Cornell University, Ithaca, NY

This suitcase is designed to double as a stable seating platform for seniors on the go.

**GoGoGrandparent**, Stanford University, Palo Alto, CA

A technology platform with a touch-tone interface that allows seniors without a smartphone to take advantage of ridesharing companies like Uber and Lyft.

**BeeHome**, University of California, Berkeley

A platform that matches seniors with tenants who offer them assistance on household chores in exchange for a more affordable housing option.

**A-Helper**, Beijing University, Beijing, China

This gardening tool focuses on the desire of older people in rural China to be able to grow their own vegetables, a traditional pastime made difficult by the movement of the younger generation to more urban environments.

We are grateful for the guidance and support of industry leaders who make the Design Challenge possible, as well as experts who volunteer their time to serve as judges for the design submissions. Thank you to our sponsors and judges!

## **SPONSORS**

Halbert Hargrove Investments

AirBnB

Davis Phinney Foundation

Eskaton

Home Care Assistance

Home Instead Senior Care

## **JUDGES**

Gretchen Addi, Associate Partner, IDEO San Francisco

Polly Dawkins, Executive Director, Davis Phinney Foundation

David Gensler, Fellow, Distinguished Careers Institute

Judee Humburg, Managing Director, Full Circle Stories

Natalia Merluzzi, Director of International Partnerships, AirBnB

Todd Murch, Chief Executive Officer, Eskaton

Lily Sarafan, Chief Executive Officer, Home Care Assistance

Jonathan Stevens, Senior Vice President of Thought Leadership, AARP  
David Weigelt, Vice President, Innovation Team, Home Instead Senior Care

### **ENTRY JUDGES**

Gretchen Addi, Associate Partner, IDEO San Francisco  
John Barton, Director, Stanford Architectural Design Program  
Hector De La Torre, Executive Director, Transamerica Center for Health Studies  
Stephen Ewell, Executive Director, Consumer Technology Association  
Ruth Finkelstein, Assistant Professor, Columbia University  
Karen Venable, CEO & Founder, Roommates4Boomers  
David Weigelt, Vice President, Innovation Team, Home Instead Senior Care  
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Brenda Spillman, Senior Fellow and Health Economist, Urban Institute, Health Policy Center  
Susanne Stadler, Architect; Social Entrepreneur  
Louis Tenenbaum, Founder, Aging in Place Institute  
Brook S. Kennedy, Industrial Designer, Associate Professor, Industrial Design Program, Virginia Tech  
Surya Kolluri, Managing Director, Bank of America Merrill Lynch  
Brandon Lopez, Multidisciplinary Designer; Winner, 2015-2016 SCL Design Challenge  
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Sheri Peifer, Chief Strategy Officer, Eskaton  
Connie Carpenter Phinney, Board Member, Davis Phinney Foundation for Parkinson's  
Lily Sarafan, Chief Executive Officer, Home Care Assistance  
Greg Shaw, CEO, Home Care Assistance  
Naoko Shiota, Director of Business Intelligence, Home Care Assistance

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### **About the Design Challenge**

The Stanford Center on Longevity Design Challenge is a global competition aimed at encouraging students to design products and services to improve the lives of people across all ages. Established in 2013, the Challenge is focused on ways to motivate and empower

people in their daily lives both inside their homes and in their community, particularly as they remain healthy and vigorous long past the traditional beginning of retirement.

For more information, visit <http://designchallenge.stanford.edu>

The challenge is made possible by generous sponsorship from a number of companies and foundations. Lead sponsorship is provided by the Halbert Hargrove. Additional financial support has been provided by AirBnB, The Davis Phinney Foundation, Eskaton, Home Care Assistance, and Home Instead.

### **About the Stanford Center on Longevity**

The mission of the Stanford Center on Longevity is to redesign long life. The Center promotes the acceleration and implementation of scientific discoveries, technological advances, behavioral practices, and social norms so that century long lives are healthy and rewarding. Founded in 2007 by Laura Carstensen, PhD and Thomas Rando MD, PhD, the Center works with more than 150 Stanford faculty, their students and research staffs, as well as leaders from industries, thought leaders, and policy makers to develop workable solutions for urgent issues confronting the world as the population ages. For more information, visit <http://longevity.stanford.edu>

Follow the Stanford Center on Longevity [@StanfordLngLife on Twitter](#) and [via our Facebook page](#) for more updates -- including announcements on “Promoting Healthy Habits Through Lifelong Design”, the theme for our 2017-2018 Design Challenge!