Hiroshi Furuya (U.S. Citizen)

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Education

Columbia University **May 2018**
M.S. Computer Science **GPA 3.6/4.0**

University of Maryland **May 2016**
B.S. Aerospace Engineering with Honors **GPA 3.8/4.0**

Accomplishments

Future Space Leaders Foundation Fellow **2018**
NASA Space Technology Research Fellow **August 2016 - July 2018**
University of Maryland Banneker/Key Scholar **August 2012 - May 2016**

Relevant Experience

Senior Software Developer **October 2018 - Present**
MoBack, Inc., at Google RMI/Brain Robotics

- UX Engineering for mixed reality applications involving robotics using Unity and C#
- Ownership of development and operational integration of critical user-facing subsystem
- Leading usability analysis to identify key areas for performance improvement

NASA Space Techonology Research Fellow **August 2016 - July 2018**
Columbia University in the City of New York

- Research topic: Collaborative Augmented Reality with Hands-Free Gesture Control for Remote Astronaut Training and Mentoring
- Advisor: Prof. Steven Feiner, Columbia University Computer Graphics and User Interfaces Lab
- Designed and developed AR Unity application, StowageApp, targeting International Space Station (ISS) logistics stowage operations using the Microsoft HoloLens
- Lead the development of new stowage procedure description methodology to better utilize AR technology
- Wrote IRB applications and user study design for the evaluation of StowageApp
- Conducted pilot studies totaling over 40 hours of testing in full-scale ground mock-up of ISS at NASA Johnson Space Center in Houston, TX
- Presented results at SIGGRAPH 2018 in Vancouver, Canada for demonstration and the 69th International Astronautical Congress in Bremen, Germany for oral presentation and technical publication
- Lead NASA student intern participation in the development and evaluation of StowageApp

Arnold Engineering Development Center (AEDC) Testing & Evaluations Scholar **June 2014 - May 2016**
United States Air Force Material Command AEDC, White Oak Hypervelocity Wind Tunnel 9 (T9)

- Designed and performed lab experiment to comparatively evaluate different global thermal measurement system sensors in T9
- Presented research at AIAA Student Region I Regional Conference 2016
- Gave 3 poster presentations and 4 technical presentations to AEDC and hypersonics consortium audience
- Mentored and managed two other interns in team projects in both office and lab environments

Co-Founder, Developer, and Team Leader **January 2015 - May 2016**
Project Delta, Non-Profit Tech Consulting Firm for Social Good

- Delivered Minimum Viable Product to Peace Corps for Volunteer Leave Request Web App “BonVoyage”
- Startup Shell (startup incubator) membership earned after competitive pitch and interview process
- Lead two internship teams totaling 4 students in Agile software development cycle
- Clients include international organizations such as LocaLove, Solidarity Center, and the Peace Corps