University of Nevada, Reno

Computer Science & ENGINEERING

2018 NSF Research Experiences for Undergraduates (REU)
Collaborative Human-Robot Interaction
June 4-Aug 10, 2018

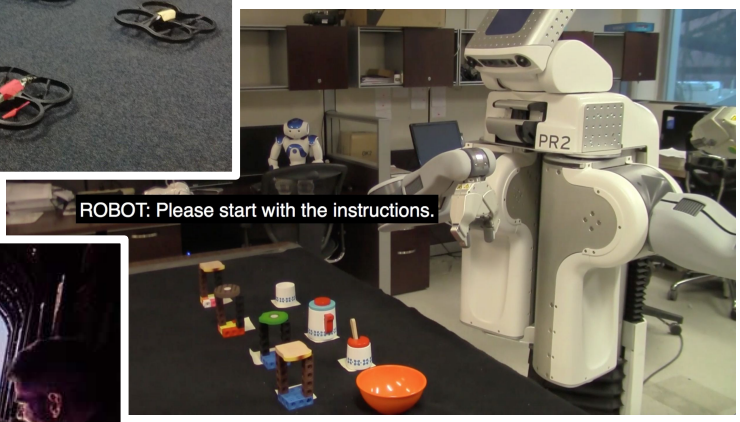
This Research Experiences for Undergraduates site, funded by NSF Division of Computer and Network Systems, focuses on Collaborative Human-Robot Interaction and provides students with robotics and networking experiences.

Project Objectives:

- Opportunities to conduct robotics research and gain valuable experience in an exciting research area
- Provide information for students considering exploring robotics research and graduate studies
- Learn advanced subjects such as human-robot interaction, assistive robotics, autonomous robots, field robotics, and wireless communication and cybersecurity.

Activities:

- Autonomous Underground Robotic Inspection
- Empirical Study of Socially-Appropriate Interaction
- Language-Based Human-Robot Collaboration
- Path Planning Development for Dirt Cleaning Robots
- Development of HRI Simulator for Multi-Objective Optimization
- Network management of heterogeneous robotics devices in a wireless environment
- Data Collection and Analysis Tools For Natural Human-Human Interaction



Eligibility:

- U.S. citizen or permanent resident
- Majoring in Computer Science, Electrical Engineering, Psychology, or related
- Sophomore, Junior, or Senior
- Must graduate after September 2018

Application Process:

- Transcripts
- Application Form
- Recommendation Letter(s)
- Personal Statement
- Resume
- See website for more details

Application Deadline:

March 2, 2018

Apply Online:

https://www.unr.edu/robotics-reu

Contact:

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UNR Robotics Research Lab
1664 N Virginia St
MS-171
Reno, NV, 89557

Award Information:

- $5,000 stipend for 10 weeks
- On-campus housing provided
- Food allowance
- Round-trip travel expenses up to $800
- Total: approximately $8,000

Announcement of Awards:

March 15, 2018