TAHA SHAHEEN

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SUMMARY

Ph.D. student in Computer Science at Arizona State University working on human-robot collaboration with 3+ years of research experience. Background in engineering low-cost socially assistive robots for autism therapy, prevention of misuse of teleoperated robots, and studies involving human-robot interaction. Seeking internships for May 2024 in robotics research primarily in human-centered robotics.

EDUCATION

Ph.D. Computer Science — Expected May 2028
Arizona State University, USA — 4.00/4.00 GPA

M.S. Social Informatics — April 2023
Kyoto University, Japan — 3.92/4.00 GPA
Received MEXT Research Scholarship by Japanese Government
Awarded Distinguished Master's Thesis Award

B.E. Electronic Engineering — November 2017
NED University of Engineering and Technology, Pakistan — 3.70/4.00 GPA
Achieved rank 5 in batch of 142

EXPERIENCE

Graduate Student Researcher — October 2020 – August 2023
Human-Robot Interaction Lab, Kyoto University, Japan

· Investigated misuse of avatar robots by anonymous malicious operators.
· Designed and executed 3 hazard-identification workshops with 4 participants each. Generated taxonomy of low-moral actions.
· Proposed detection and prevention mechanisms for each low-moral action. Wrote and submitted a manuscript currently under review at a peer-reviewed journal.

Research Assistant — November 2018 – September 2020
National Center for Artificial Intelligence, NED University, Pakistan

· Engineered two low-cost socially assistive robots and investigated their use in autism therapy. Integrated Unity, Android, and Arduino in the robot design process.
· Collaborated with Center for Autism, Rehabilitation & Training Sindh (C-ARTS), Dow Institute of Physical Medicine and Rehabilitation (Dow-IPMR), and Center for Autism Karachi to inform robot designs and investigations. Carried out pilot studies in all three locations.
· Guided 12 undergraduate engineering students (3 teams) whose final-year projects were associated with robotics and autism. Arranged visits to centers for autism for training and observation. Held weekly meetings and monthly progress reports. All three projects culminated in pilot experiments exploring (1) a robot's ability to catch and keep a child's attention, (2) robot-mediated emotion cognition therapy, and (3) robot-mediated imitation therapy.

NOTABLE PROJECT

Office Reception Robot: Constructed and programmed a robot to recognize office employees and guests and learn the faces of people it had not seen before. Wrote three Android frontend applications and a Python backend to help office staff organize meetings, let in guests, and pick up packages.

SKILLS

Programming Languages: C, Python, Java, C#, C++, R, MATLAB
Software ROS, Android Studio, Unity, Autodesk Fusion 360, Autodesk Eagle, LaTeX