



Community for Human Innovation (CHI): Student Outreach Club

Creating Essential Technologies that Support Human Performance and Independence

Overview

The Utah Assistive Technology Program (UATP) developed the CHI student club at Utah State University (USU) to bring students, faculty, and the broader community together to design and create assistive technologies that promote independence and human performance.

Impact and Leadership

The CHI club has expanded awareness of UATP among students and strengthened biomedical engineering capacity and outreach.

Led by:

- Sam Young – Club President, USU Student, UATP Lab Technician
- Dan O’Crowley – Club Advisor, UATP Lab Coordinator

Project #1 – Cost-Friendly DIY Therapy Trike

In collaboration with local physical therapists, CHI designed a low-cost, fully adjustable therapy trike frame. The design allows parents and caregivers to build the trike themselves, making therapy equipment more affordable and adaptable as children grow.



Project #2 – Ultrasound Transducer Retainer for Research

CHI partnered with a USU Kinesiology faculty member to design and test 3D-printed ultrasound transducer retainers. These holders ensure consistent muscle atrophy measurements and are now being used in an active research study.

