Evaluation of Transtibial Ankle Prosthesis Prototype

Mechatronics and Robotics Research Laboratory
Department of Mechanical and Industrial Engineering
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We are conducting a research study to test and further develop a robotic ankle prosthesis for lower-limb amputees. The benefits of this experiment will potentially help people missing limbs to regain activity levels lost after amputation.

Who is eligible?

- Unilateral transtibial amputees.
- Ages 18-69 years, 5'0"-6'4" height, 90-220 lbs weight.
- Free from any chronic pain, arthritis or any other disabilities.
- Free from any other medical conditions.
- Uses a prosthesis daily.

What will you be asked to do?

- Spend 2 hours at the Biomechanics Lab in Totman Building on the UMass Amherst Campus for data collection.
- Wear electromyogram and optical motion capture sensors on your torso and legs, using medical adhesives.
- Go through a series of everyday motions like walking, sitting, and standing while wearing your daily use prosthesis, and an experiment prosthesis prototype.

Compensation

- Test subjects will be compensated **$25.00** for their time. Data collection is expected to last between 1-2 hours.

If you have any questions, please contact us.
If you are interested in participating, we can schedule a screening interview.

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