

Projects for Academic Year 2019-2020:

- **Sensor/warning system to prevent wheelchair roll-off**
Users of power wheelchairs often have limited ability to observe their environment, putting them at risk of driving their wheelchair off sidewalks, curbs or other ledges. Students are designing a sensor and warning system that could even shutdown the wheelchair in an extremely dangerous situation. This project is in coordination with the KU Medical Center Multiple Sclerosis Achievement Center.



Projects for Calendar Year 2020:

- **Hold my bag**
Students are designing better ways for wheelchair users to carry, stow and retrieve their belongings, commonly carried in bags or backpacks. This project is in coordination with the KU Medical Center Multiple Sclerosis Achievement Center.
- **Tray tables up**
Students are designing improved systems for use of a tray/work table on a wheelchair, making it easier to remove and stow the table before moving/traveling and easier to retrieve and setup the table when ready. This project is in coordination with the KU Medical Center Multiple Sclerosis Achievement Center.
- **Raise my bed**
Students are designing a system for in home use to raise and lower an existing “standard” bed, to allow in home care to be safer and more ergonomic (raised bed), but to allow the patient to use their own bed (lowered to get in/out). This project is in coordination with the KU Medical Center Multiple Sclerosis Achievement Center.

