



LEMELSON-MIT ILLINOIS STUDENT PRIZE



Scott has taken the initiative to develop a wheelchair prototype (Intelliwheels) that uses continuously variable transmission (CVT) in each wheel to help the user of the chair move more efficiently with the ability to shift gears according to terrain. It does this unnoticeably with the CVTs' ability to provide an infinite number of gear ratios and an onboard micro-processor which senses the velocity and tilt of the chair to choose the appropriate ratio. The chair was created to help users exert less energy when commuting from place to place without having a learning curve to the new product.

2010 FINALIST

SCOTT DAIGLE

GRADUATE MECHANICAL SCIENCE AND ENGINEERING