**Problem:** Aging individuals unable to transport their electric assist bicycles due to heavy weight

**Proposal:** Design a platform hitch bicycle rack capable of raising and lowering, such that you can roll a bicycle onto the rack with ease.

**Features to Include**

Lift Mechanism
- Electronic motor
- Rechargeable battery

Theft Proof Securement
  - Because E-bikes are not cheap!

Sensing System
  - Are the bicycles loaded?
  - Are the bicycles secured?

**Team Members – left to right**

Jonathan Jansma (ME) – Manufacturer
Adam Brunsting (ME) – CAD Designer
John Stehouwer (ME) – Communication
Young Rak Choi (ME) – Researcher

**Our mission:** To eliminate need for upper body strength during the loading and unloading of e-bikes