Outboard Boat Motor Service Tool

The Technology and Innovation
- Lift up to 750lbs with a factor of safety of 2 or more
- Easily remove an outboard motor with one person
- Remote Controlled Hydraulics
- Stabilize motor while suspended

Community/Industry Impact and Value
- Remove an outboard motor from a boat that is loaded on a trailer
- One person operation

Community/Industry Engagement
- Nexteer Automotive
- Tech Shop Detroit

Team Composition
- Andrew Skupien, ME
- John VanHouten, ME
- Dr. Ozbeki, Advisor
- Jeffrey Meng, ME
- Jose Varela, ME

Learning Experiences
- Static Analysis
- Material Selection
- Machining
- Troubleshooting
- Finite Element Analysis (FEA)
- Prototype Fabrication
- Testing

Further Research and Development
- Deep Cycle Battery
- 8 inch heavy rubber casters
- Cordless remote
- Optional hydraulic valve hookups