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