

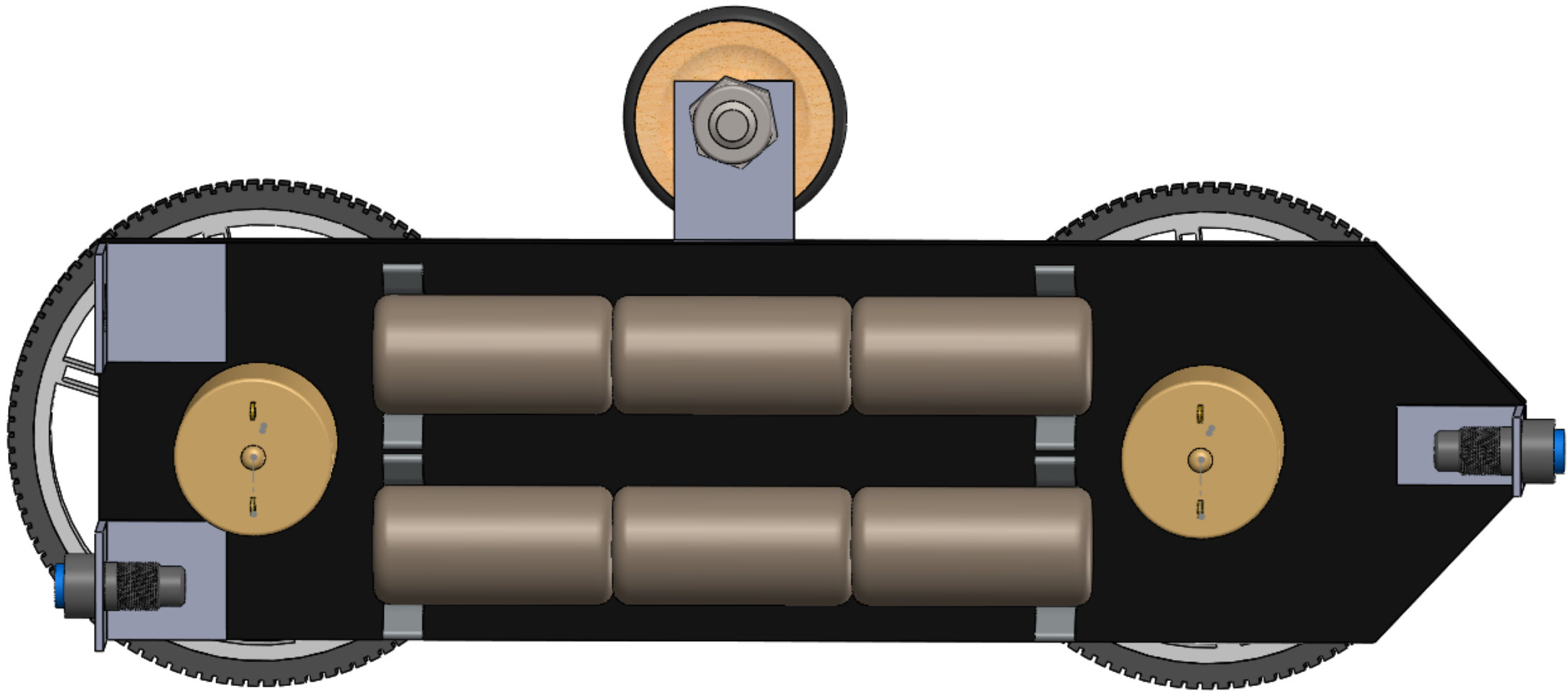
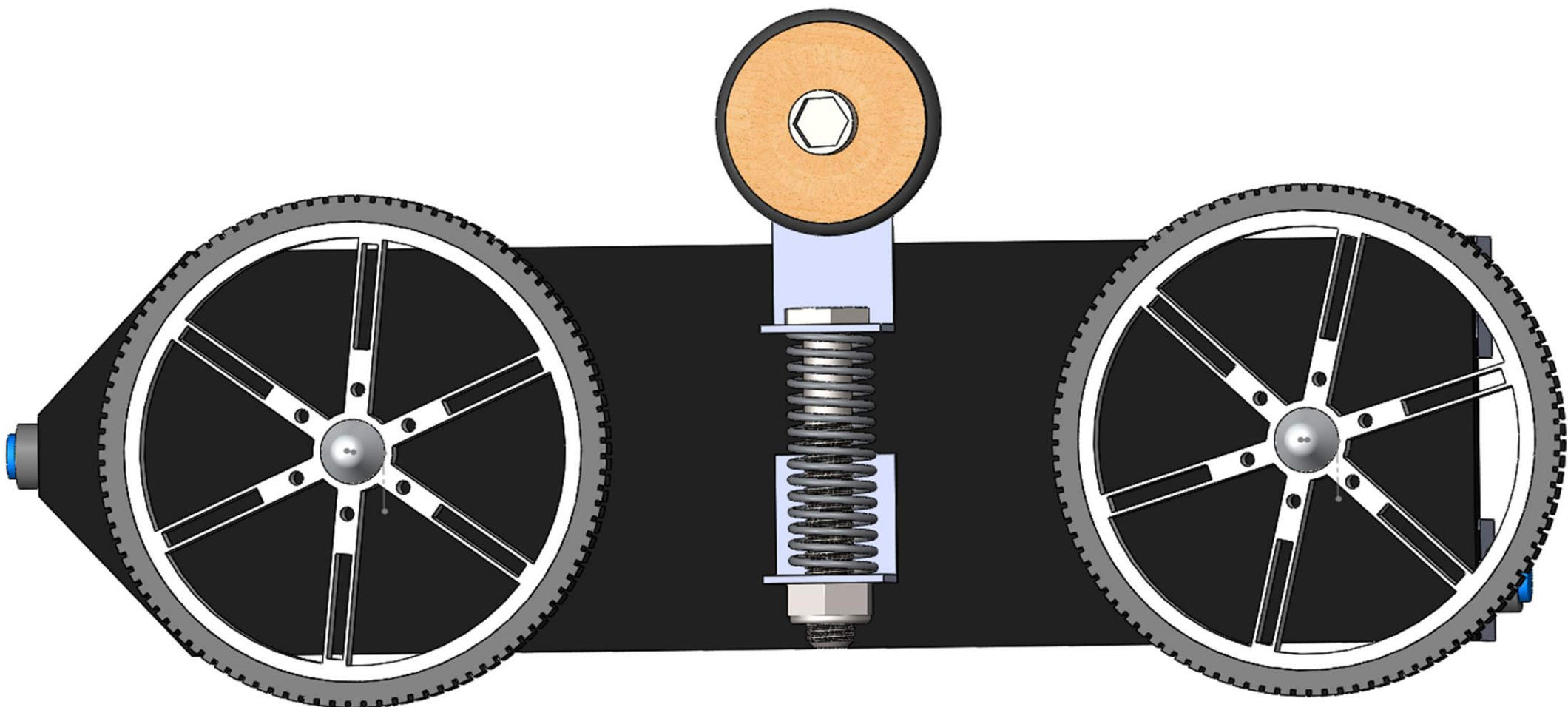
# Internal Pipe Climber Project

Jordan Jenkins, Ryan James, George Jones, Aaron Howitt

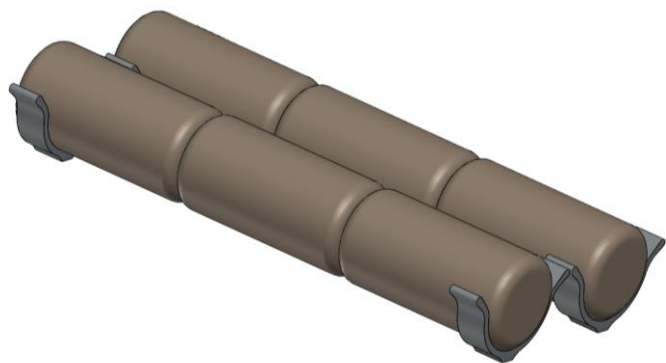
R Morgan & P Monteiro-Ferreira

School of Engineering

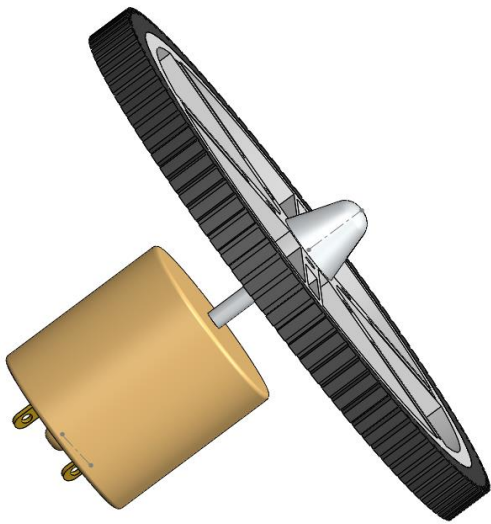
Year 1 Engineering Design Project



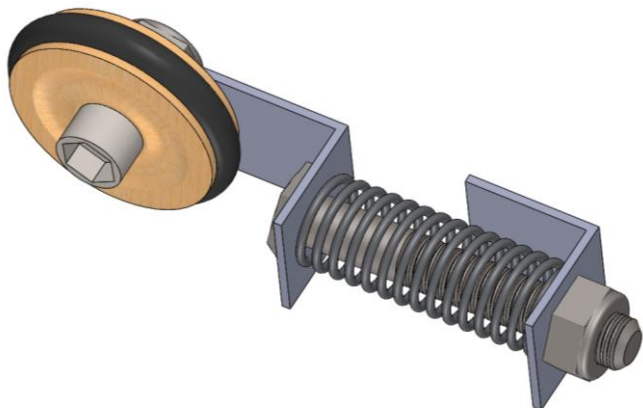
- Battery Power
- Dual Motor
- Variable Suspension
- Compact
- Electronic Reverse



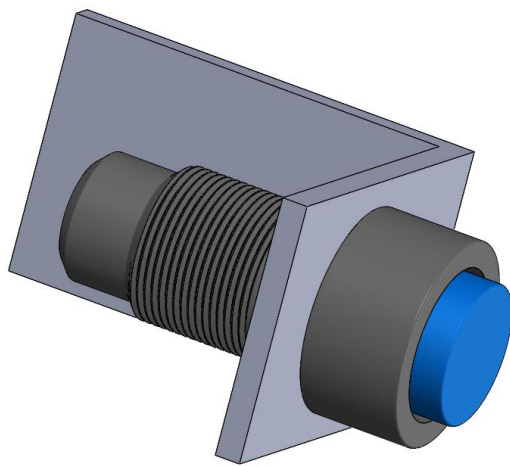
- Nickel–Metal Hydride (NMH)
- 9.6 v
- 1,600 mAh
- Retro-fit Tamiya connector for charging



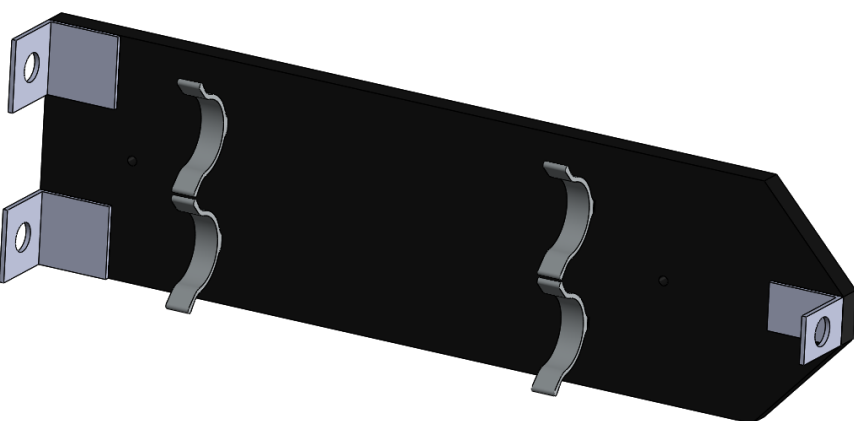
- 1,200 rpm
- 6 v
- ABS driven wheels
- Grooved rubber tyres



- Mechanical suspension
- Adjustable spring pre-load
- 40 mm stabilising wheel
- Smooth rubber tyre



- Latching switch
- Double Pole, Double Throw
- Self switching application
- Separate switch for power isolation



- 5 mm Acrylic chassis
- 220 x 70 mm & tapered nose
- Drilled for securing additional components
- Carabiner hook attachment

The prototype is fully functioning and adheres to all design regulations

Mounting components to the rigid chassis offers superior protection and control

Demonstration of Working Prototype