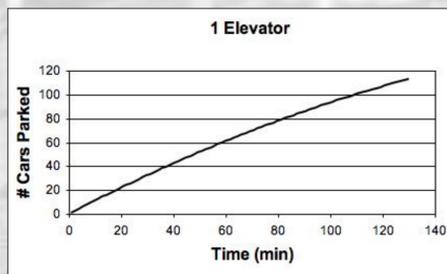




IPRO 315: Mechanical Engineering Group

Logistics

of Cars Parked vs. Time



40 sec < Time to Park a Car < 1 min 27 sec

Time to Fill up Garage: 2 hr 10 min

The Team



Aron Varhegyi, Senior ME



Brian Brady, Sophomore AE



Greg Herbert, Sophomore ME



Paul Butkovich, Junior ME

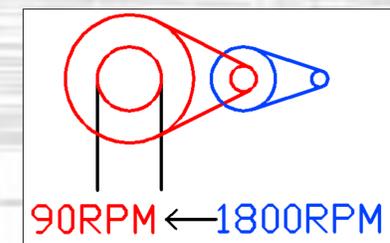
Engine / Gearbox Selection



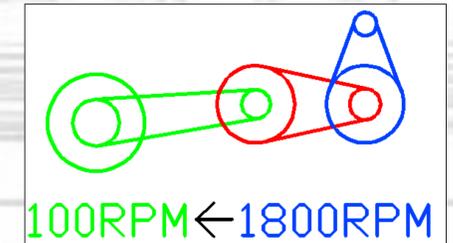
High Torque GE Motors

- Vertical: 2 motors 75 HP
- Horizontal: 2 motors 100 HP
- Reduced est. cost by 1751%

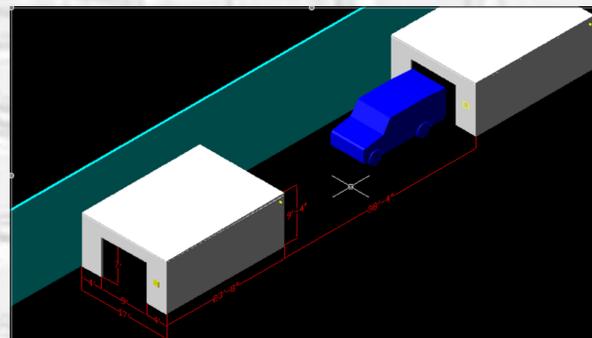
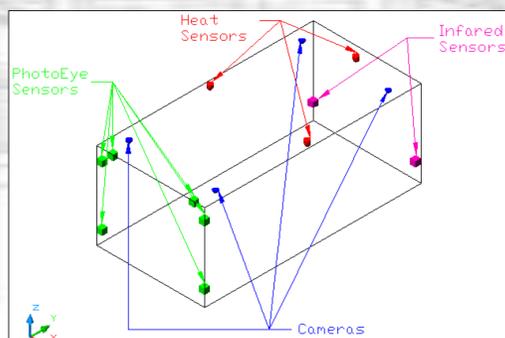
Vertical Gearbox



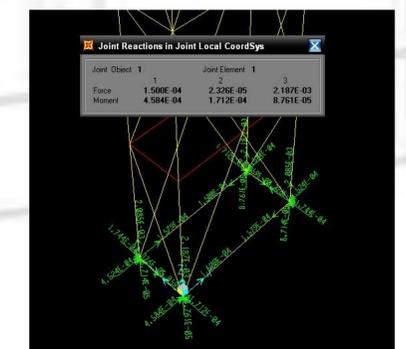
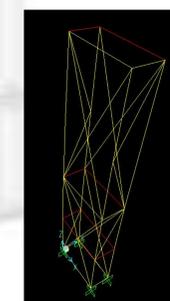
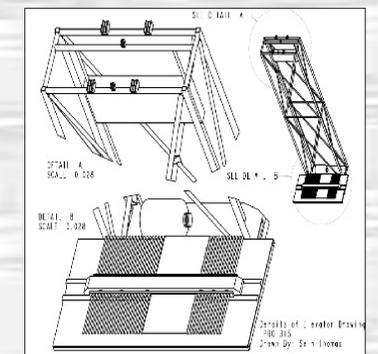
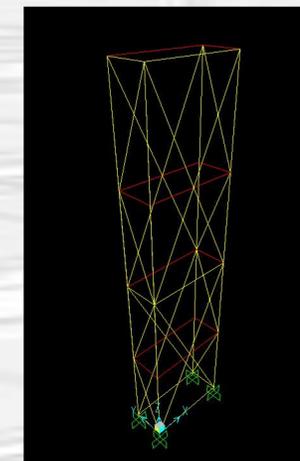
Horizontal Gearbox



Sensors



SAP 2000 Analysis



Timeline

