

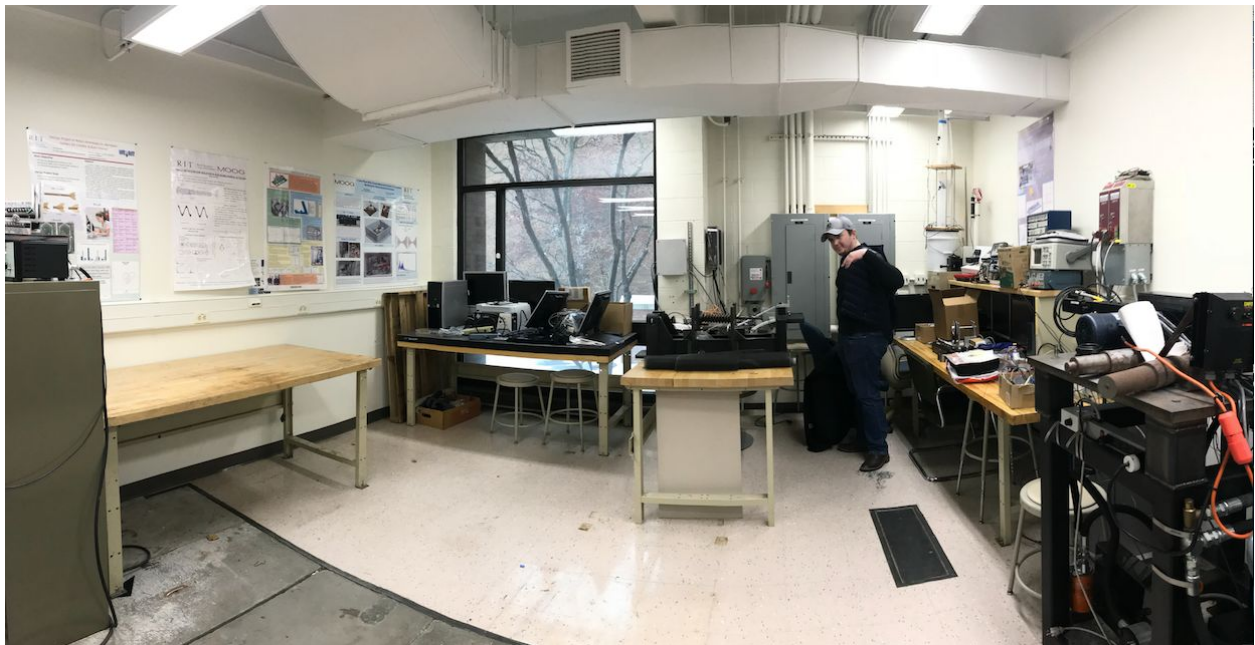
## Week 1

### *Planned:*

- Obtain facilities quote
- Decide on motor to be used
- Reorganize / set up lab

### *Completed:*

- Obtained approximate quote from facilities → ~\$12K
- Selected smaller motor
- Reorganized/removed tables
- Relocated stock material to machine shop



## Week 2

### *Planned:*

- Make Build & Test Prep Presentation
- Update Edge
- Create test plans
- Obtain supercharger

### *Completed:*

- Obtained supercharger
- Completed test plans
- Cleaned lab more
- Updated Edge and finished Build & Test Prep Presentation



## Week 3

### *Planned:*

- Present Build & Test Prep Presentation
- Order motor
- Updating motor mount
- Obtain shield for test Rig
- Select pulley sizes
- Design motor pulley wheel
- Select belt type and size

### *Completed:*

- Ordered motor
- Finished motor mount design
- Obtained shield for test rig
- Pulley wheels selected
- Updated Edge and presented build & test prep



## **Week 4**

### *Planned:*

- Obtain motor
- Select material for C-channels
- Buy hardware for motor mount
- Motor mount CAD
- Clear workspace
- Set-up enclosure
- Select pulley sizes
- Design motor pulley wheel

### *Completed:*

- Obtained motor
- Purchase c-channels
- Set-up partial enclosure

## **Week 5**

### *Planned:*

- Design Motor Mount
- Purchase tensioning bolts
- Find material to mount supercharger to
- Buy motor pulley material

### *Completed:*

- Designed Motor Mount
- Purchased tensioning bolts
- Found mounting material

## **Week 6**

### *Planned:*

- Cut slots into c-channels
- Figure out how to utilize the purchased supercharger mount
- Purchase 6-rib pulley
- Obtain motor and supercharger pulley

### *Completed:*

- Machined slots into c-channels
- Placed motor on to c-channel setup
- Purchased 6-rib pulley

## **Week 7**

### *Planned:*

- Design motor pulley
- Fabricate motor pulley
- Contact FMS for air solution
- Obtain quote for FMS work

### *Completed:*

- Finalized motor mount
- Designed motor pulley
- Obtained quote for FMS work

## **Week 8**

### *Planned:*

- Clean lab for FMS work
- FMS complete air piping work
- Set-up computer with DAQ
- Finalize piping decision

### *Completed:*

- Cleaned lab for FMS work
- FMS completed air piping work
- Set-up computer with DAQ
- Finalized piping decision

## **Week 9**

### *Planned:*

- Machine motor pulley
- Mount motor mount
- Finalize supercharger mount

### *Completed:*

- Completed motor pulley
- Motor mounted
- Supercharger mounted

## **Week 10**

SPRING BREAK

## **Week 11**

### *Planned:*

- Install motor pulley
- Purchase missing plexiglass
- Purchase silicone joints
- Purchase aluminum air piping

### *Completed:*

- Installed motor pulley
- Purchased silicone joints
- Purchased aluminium air piping

## **Week 12**

### *Planned:*

- Research VFD
- Select VFD
- Research sensors
- Purchase tensioning rod and nuts

### *Completed:*

- Purchased and welded tensioning rod and nut
- Selected VFD

## **Week 13**

### *Planned:*

- Have facilities set-up exhaust and intake piping
- Mount supercharger and motor to table

### *Completed:*

- Mounted supercharger and motor and applied tension to pulley

## **Week 14**

### *Planned:*

- Purchase VFD
- Have facilities wire VFD
- Purchase remaining sensors and

### *Completed:*

- Facilities completed wiring the VFD

## Week 15

### *Planned:*

- Set-up final system
- Clean up lab to prepare for Imagine RIT

### *Completed:*

- Set-up final system
- Cleaned up the rest of the lab
- Found door panel with acrylic for enclosure
- Spray paint supercharger L-mount

