**Initial Design Ideas**

- Lighting
- Stiffening drawer
- Steel corrugations
- Charging system
- Cabinet linings
- Damage resistant
- RFID

**Barcode**
- Barcode types
- Laser etching
- Software

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**Design Team Objectives**

- **Improve Drawer Design**
  - Assess weaknesses in drawer design
  - Assess affordable/feasible option

- **Explore New Cabinet Features**
  - Tool management
  - Assess functional features
  - Assess attraction/marketability
  - Consider the retail market

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**Focus: Barcode System**

- Feasible/inexpensive
- Software under development
- Functions:
  - Check in
  - Check out
  - User ID
  - Log time
  - Tool information/condition

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**Dropped Ideas**

- Lighting
- No sponsor interest
- RFID
  - Too expensive
  - Material incompatibility

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**Testing Team**

- Ian Wiese
- Calin Garvis
- Abdul Aleem
- Alex Di Sciullo Jones
- Hon-Kyu Chong
- Johnathan Eckhardt

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**Professors:**

- William Maurer, MS
- Dr. Sheldon Mostovoy

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**Tasks for Future IPROs**

- Cabinet linings
- Laser etched barcodes
  - Etching is cheap
  - Look into scanning solutions (‘smart’)
- Corrugated drawer
  - Already created
  - Testing under preferred conditions (i.e. locks both sides)