

| Task Class               | Task                                     | Task Description   | Task Inclusions   |   | Dependencies   | Sub-Team Charter  | Priority | Current Projects |
|--------------------------|--|--|---|---|--|---|----------|------------------|
|                          |  |  | Yes   | TBD   |  |   |          |                  |
| Quality of Life          | • CCTV Camera in ATR                     | -Allows operator to see how the antenna is moving                | - CCTV equipment<br>- Mounted screen for outside of the test range                              |   |  | - Project Lead: Donovan   | High     |                  |
|                          | • Landline Phone in ATR                  | -Allows for communications while inside Antenna Test Range       |   |   |  | - Project Lead: Donovan   | Medium   |                  |
|                          | • Motor Controller Case                  | - Custom case designed to protect the motor controller hardware. | - Custom case<br>- Case intake/outake ventilation   | - Microcontrolled motor controller hardware on/off switch |  | - Project Lead: Owen  | Low      |                  |
|                          |  |  |   |   |  |   | TBD      |                  |
| Scan Quality Improvement | • Vertical Poll Stabilization            |  |   |   | - Ball Aerospace recommendations   |   |          |                  |
|                          | • Antenna Mounting Hardware              |  |   |   |  |   |          |                  |
|                          | • RF Leakage                             |  |   |   | - Ball Aerospace recommendations   |   |          |                  |
| Precision                | • Ball Aerospace Recommendations         |  |   |   |  |   |          |                  |
|                          | → Hardware Fixes                         |  |   |   |  |   |          |                  |
|                          | → Software Fixes                         |  |   |   |  |   |          |                  |
| Antenna Design           | • Electronically Steerable Antenna (ESA) |  |   |   | - Dr. Branislav Notaros recommendations  |   |          |                  |
|                          | • Dipole Antenna                         |  |   |   | - Dr. Branislav Notaros recommendations  |   |          |                  |
|                          | • Near & Far Feild Translation           |  |   |   | - Dr. Branislav Notaros recommendations<br>- Milan Recommendations                                     | - Project Lead: Adam  |          |                  |
| Data & Equipment         | • Scan Data RAID-like Storage Server     | - Server that stores scan data.                                  | - Large storage capacity<br>- Software controlled server configuration<br>- Internet connection | - Automatically store scan data                           | - CSUATRv2 source code   | - Project Lead: Josh<br>- Server Hardware: Parker<br>- Server Software: Josh                          |          |                  |
|                          | • Remote ATR PC                          | - Remotly run scans using a RDP connection to the ATR PC         |   |   | - Motor controller case microcontroller on/off switch<br>- Internet connection<br>- CCTV Camera in ATR | - Project Lead: Parker<br>- Microcontroller On/Off: Owen, Donovan                                     |          |                  |
| Demos                    | • Find POCs:                             |  |   |   |  | - Project Lead: Parker  |          |                  |
|                          | → CSU Ambassadors                        |  |   |   |  |   |          |                  |
|                          | → CSU Outreach                           |  |   |   |  |   |          |                  |
|                          | • Practice Workshops                     |  |   |   | - TJ recommendations   |   |          |                  |
|                          | • Practice/Develop Oscilloscope Demo     |  |   |   | - TJ recommendations   |   |          |                  |
|                          | • Practice/Develop PNA Demo              |  |   |   | - TJ recommendations   |   |          |                  |
| Legacy                   | • Develop Onboarding Checklist           |  |   |   |  |   |          |                  |
|                          | • Develop Quickstart Scan Guide          |  |   |   |  |   |          |                  |
| Functionality Evaluation |  |  |   |   |  | - Mechanical Eval: Owen, Donovan<br>- Progam & Non-Mechanical Eval: Parker, Josh<br>- Scan Eval: Adam |          |                  |
|                          |  |  |   |   |  |   |          |                  |