

**PRINCE GEORGE ASTRONOMICAL SOCIETY
ROYAL ASTRONOMICAL SOCIETY OF CANADA
PRINCE GEORGE CENTRE**

**7365 Tedford Road
Prince George, BC
V2N 6S2**

Robotic Telescope Project (RTP) Minutes

April 26, 2022

Meeting Number: RTP016

Date: April 26, 2022

Location: Zoom Meeting

Chairperson: Glen Harris

Recording Secretary: Glen Harris

Committee Members present: Glen, Bob, Gil, Rob

Meeting Called to Order at 7:18 pm.

1. Approval of Minutes of RTP015

Motion: To accept the meeting minutes of RTP015 April 14, 2022.

Moved: Gil Seconded: Rob Carried

2. Old Business

- ECU, DC3Dreams software works well on a Win10 machine.

Malhar's report (Still in progress)

- Next clear night - T-Point

Glen's report

- The dome rotation limit switches have been repositioned.

- Purchased a 2000 lb. 12VDC ATV winch for use as the lower slot door motor.

- Enlisted Arctic Manufacturing to fabricate the lower dome slot door motor mount.

- Calculating winch motor DC current draw under load before purchasing a suitable DC power supply.

- Collaborating with Rob regarding lower slot door limit switches.

- Purchased the classroom UPS battery.

- Designing lower slot door motor control interface.

- Welding of the lower slot door pulley brackets and sidewalk handrail has been completed. I just need to paint over the welds.

Bob's report

- Fabricated the winch drum pulley.

Rob's report

- Configuring Raspberry Pi.

- Cloud Watcher ordered, delivery in 2-3 weeks.

- Meeting with Dave Lane next week regarding dome and shutter motor control.

Gil's report

- Has come up with an alternative to the flip mirror chain drive suggestion.

3. New Business

- Reimbursements as required.
- Ensure all equipment can be controlled locally and remotely.

4. Current actionable items

Malhar:

- TPoint run with Bob.

Rob:

- Continue with Raspberry Pi configuration.
- Collaborate with Dave Lane on code for shutter and dome control system.
- Collaborate with Glen re lower slot door limit switches.
- Upgrade Alcyone to Windows 10.
- Make a copy of Maia computer.

Bob:

- TPoint run with Malhar.
- Flip mirror.

Glen:

- Replace UPS batteries.
- Reconfigure rack mounted UPS to work with digital logger.
- Continue with the automation of the lower slot door.
- Collaborate with Rob re lower slot door limit switches.

Gil:

- Flip mirror drawing.

5. Outstanding tasks and priority

- Work on automating the lower slot door.
- TPoint alignment
- Polar alignment
- Flip mirror automation
- 4Shooter automation
- Mirror cover mechanism

6. Date, Time, and Location of the next Robotic Telescope Project committee meeting

- The next committee meeting (RTP017) will be held on Tuesday May 10, 2022 starting at 7:00 pm using Zoom.

7. Adjournment: Meeting adjourned at 7:52 pm.