

Lowell Software Syndicate



Charter:

This group will be for the discussion and construction of instrument software for Lowell Observatory. We will discuss requirements, design, implementation, standards, libraries, documentation, unit tests, etc. for the ongoing effort to replace and update the software that runs the instruments at the DCT, Mars hill science telescopes, and Anderson mesa telescopes.

Tasks:

- Develop ArcCam library, a Python interface to the 'Astronomical Research Cameras' controllers.
- Get everyone developing Python software on the same page as to standards, libraries, log file formats, etc. Draw up a Software Standards document for Lowell.
- Develop the LOCUS software system, which consists of a number of modules such as LoFits, LoFocus, LoGuide, Deinterlace, etc.
- Develop the LOUI replacement using PyQt5.
- Develop standards for software backup using Git and GitHub.
- Construct an organized set of documentation for all things software at Lowell.
- Discuss/Implement a robust, easy to use, system for tracking and managing software issues/bugs.
- As new software is developed, the group will act as alpha testers and will provide suggestions and feedback to the rest of the group.

Core Members:

Dyer Lytle (Fearless Leader, LOCUS, INTERFLO, etc.)
Ryan Hamilton (Python, LOCUS, DCT software)
Len Bright (Python, ArcCam, Mesa Software)
Tom Bida (DeVeney software, DCT Software)
Annika Gustafsson (NIHTS control software)
Nick Moskowitz (NIHTS control software)
Michael Mommert (Python, Titan Monitor Software, Robotic software)
Stephen Levine (DCT Systems)

Scientific Advice:

Ted Dunham (ARC controller expert, instrument and telescope hardware)
Mike Collins (New ARC controller honcho)

Computer and Network Advice

Charles von Buchwald-Wright
Scott Do

DCT Telescope Software:

Georgi Mandushev (TCS, DCS, AOS, etc. etc.)

Meetings:

Once a week or as needed.