The REU project for the summer was to write the software for the Sky Camera. The software was developed using Microsoft Visual Stu Developer and the programs were written in C++. The software create Graphical User Interface which integrates all the different components the instrument into one under a single menu. Therefore all the compone namely the CCD Camera, Filter Wheel and the Focus Mechanism can controlled from that menu. The software enables to open and initialize devices, set the parameters and make them do their specific ta automatically without any instruction from the user. The user can also the focus position, filter-wheel position and the exposure time using menu according to specific needs. Also the software has an additio option of running scripts which gives the observers the option of runn the instrument automatically without the presence of any observer. T software runs these prewritten scripts, collects the data and writes them memory of the computer. The software also enables the scientists specify a time when to start collecting data and when to stop. The pictu taken are all saved as fits file The files when saved besides giving

Software Design for All Sky Software Design for All Sky

The Focus Mechanism focuses the wavelength and gives us an additional advantage of being
able to focus any wavelength. It is a lens which
can be moved up and down and the position can
be controlled using the software.

The CCD Camera takes the picture. Its temperature, binning, exposure time etc. are all controlled by software. Its temperature is set at - 60 degrees Celsius

The pictures taken are saved in memory by the software as fits files. Along with the pictures it saves the information about the date, time, exposure time, Filter- wheel slot and focus position.