HIMAWARI

Dual-axis Sun Tracking System

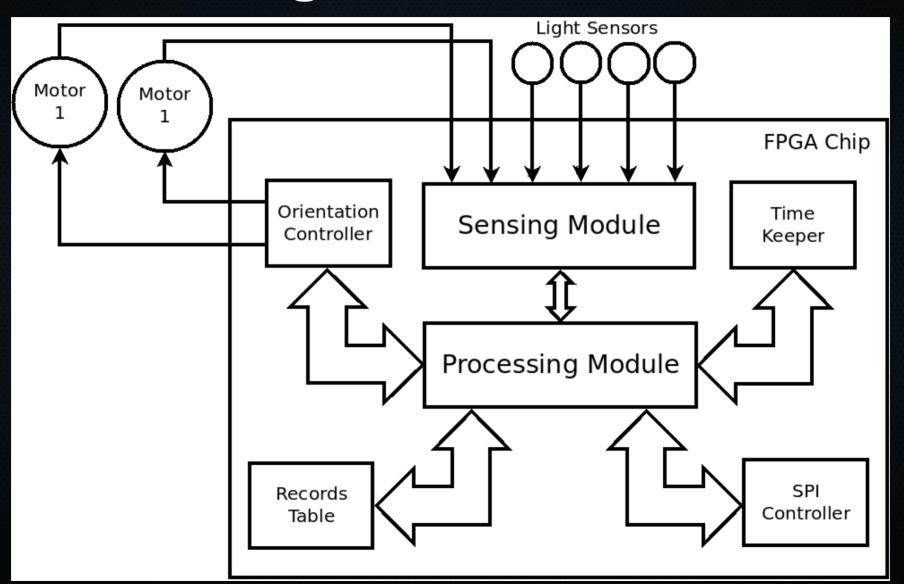
- Design Approach
- Design Architecture
- Tracking Algorithm
- Questions

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Design Approach

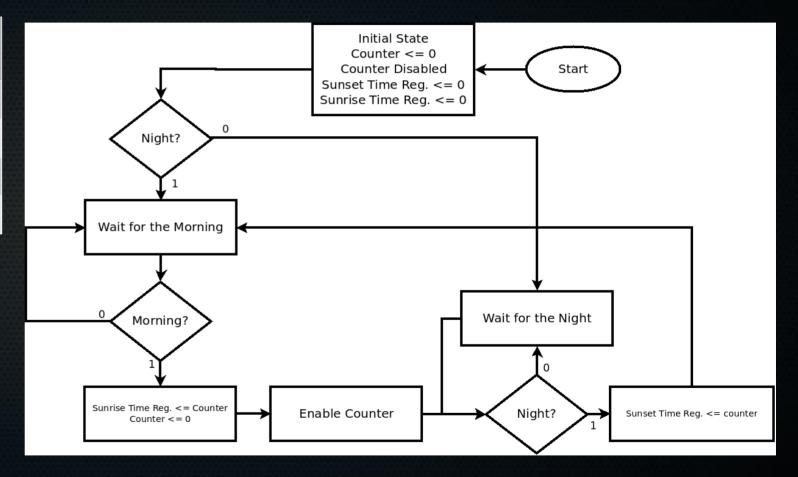
- Dual Axis.
- Heavily FPGA based: Altera MAX10
- Tracking the sun using light sensors and by keeping track of the time of the day.
- Moving the solar panel using servo motors with analog feed back signal.
- Driviving motors by FPGA.

Design Architecture



Tracking Algorithm

Hour	Minute	Position X	Position Y
1	00	106	154
1	15	110	160
1	30	115	160



Questions

Thanks!