

Project Title : Laser Keyboard

Implementation steps :

1st week :

search for resources giving information .

getting equipped with tools used .

learning what is required like image processing , coding of microcontroller .

2nd week :

get the circuitry design and blueprint of the fabrications completed

be ready with the final design

3rd week :

start fabrication and the coding and image processing part

divide it in subsystems and switch in between the hardware and software works (for better learning and overall skill developing)

improvise on the ways of fabrication and product building

4th week :

getting all the parts together, compiling the hardware

check the working, the compatibility with the output

5th week :

testing and debugging

final touches to the hardware and software

Ready !!

Components required :

Approximate

price

good quality 2 USB Camera	--	999*2 = 1998
IR Laser Diode	--	397
Image Projector	--	2500
A 2x1 USB hub	--	500
Fabrication and circuit tools.	--	exactly not known .

GROSS = expected expense under 9000 INR

Learning Involved :

coding in MATLAB

image processing

Technical Exposure

Team name : Snapdragon

Team members :

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