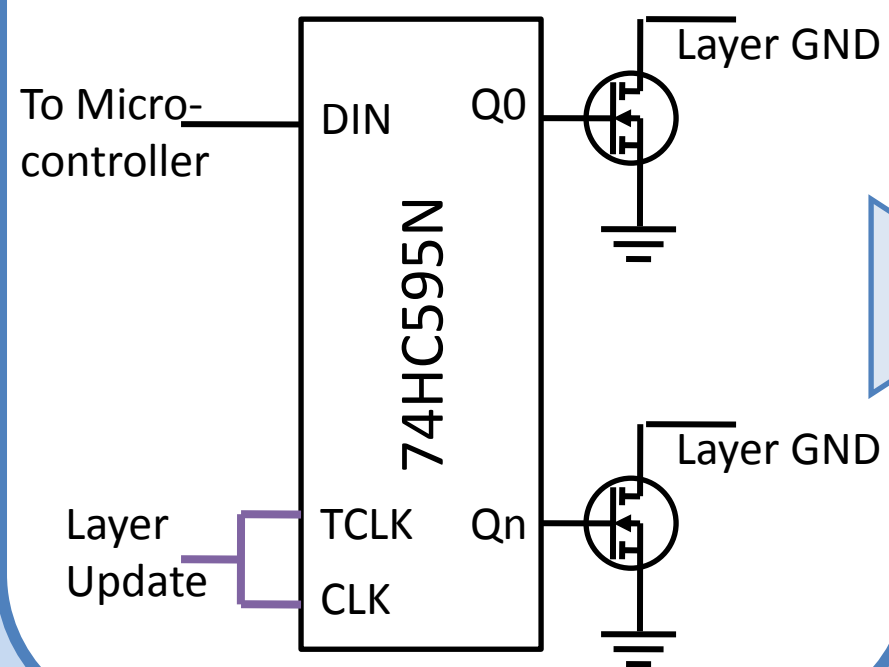


The Magic Cube:

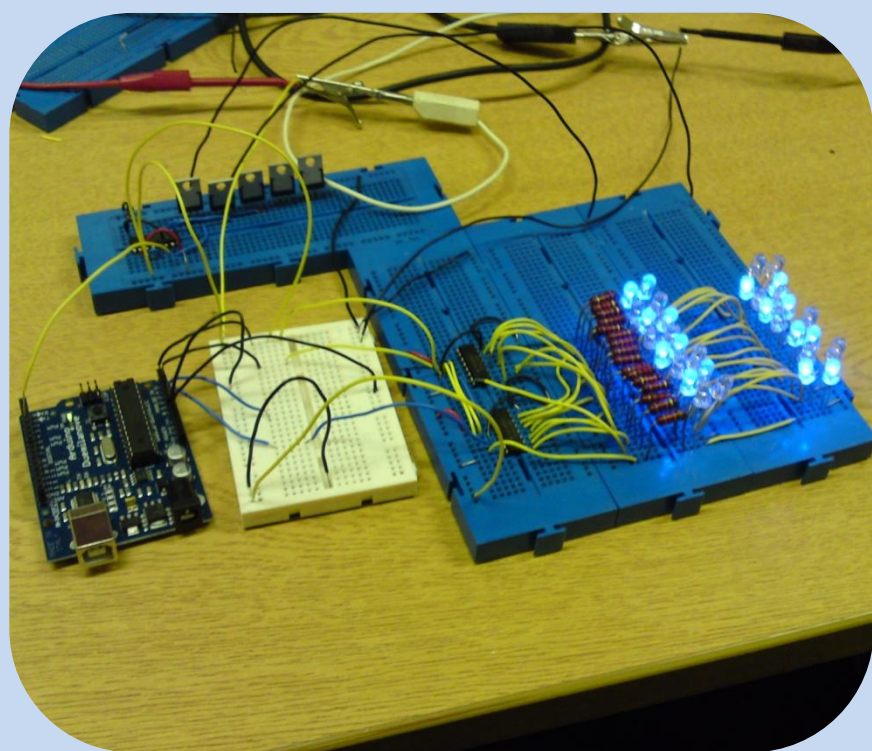
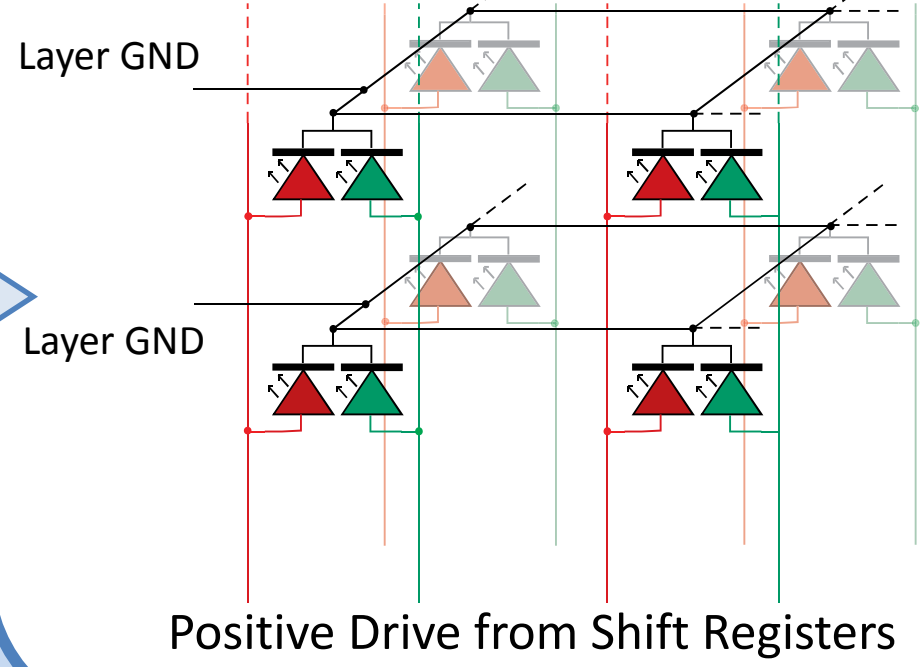
Construction and Control of a 3D LED Matrix

S.Dove, B.Fernandes, T.Loussert, M.Overington, E.Overton, C.Ryan. Supervisor: Dr M.Grell
<http://ledcube.googlecode.com>

Layer Driver

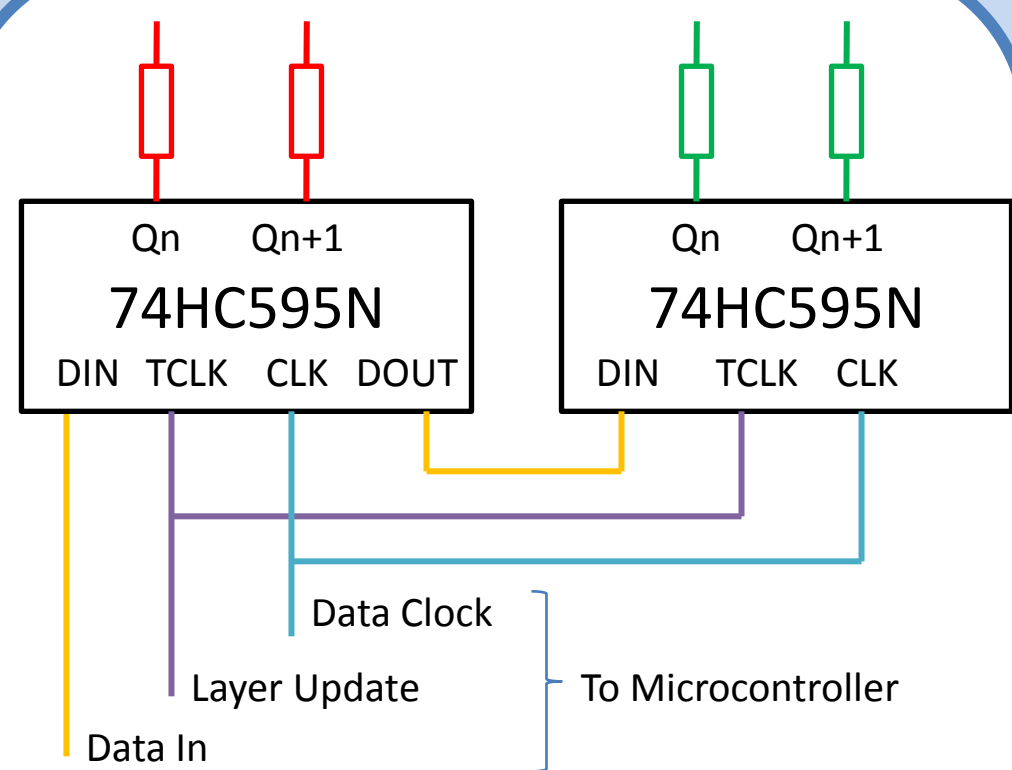


Cube Wiring



Multiplexing test: Success!

Matrix Driver



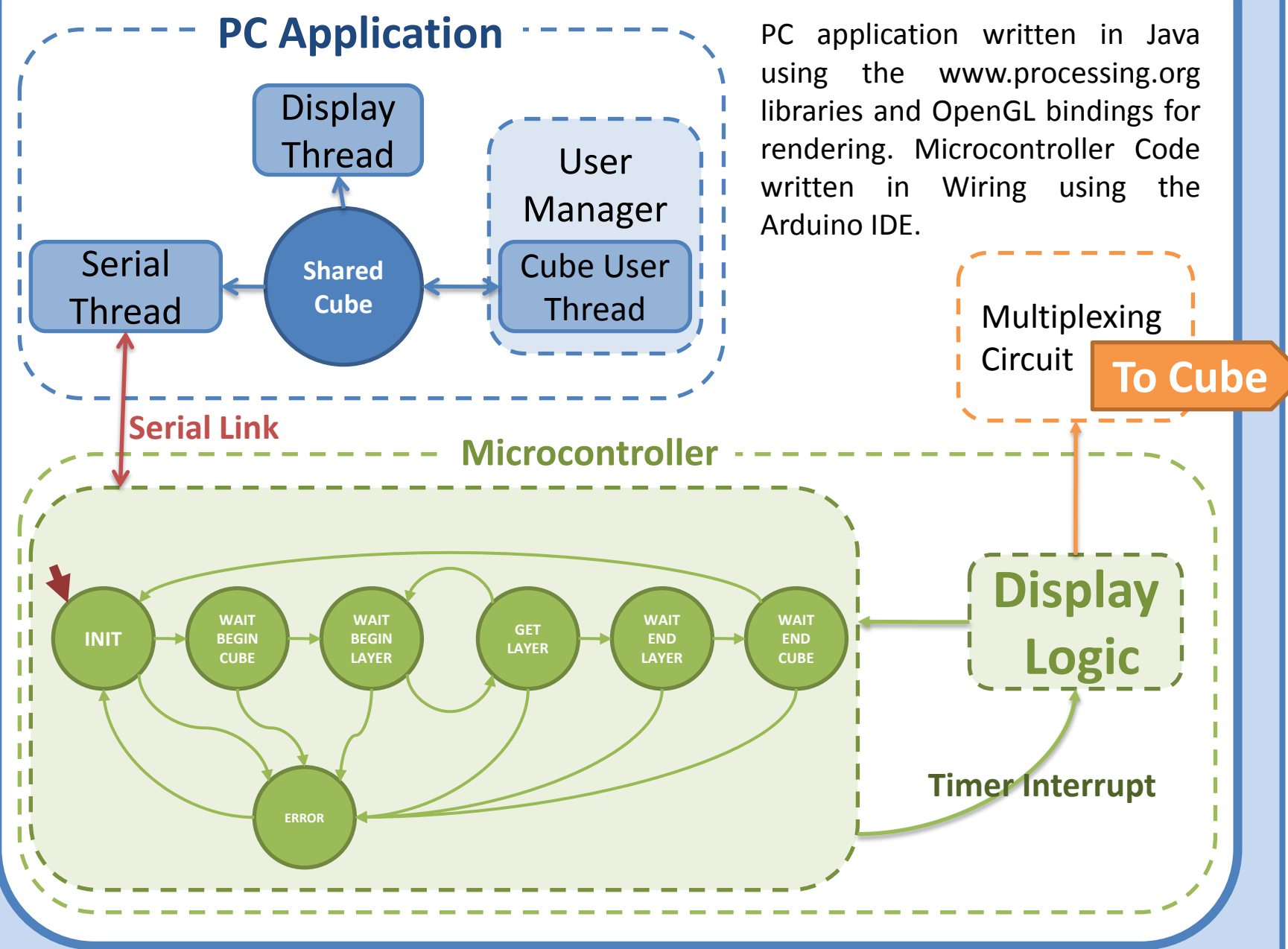
Project Fact Sheet

Total Length of wire:	79.12m
Number of Solder Joints:	2096
Number of LEDs:	512
Shift Registers:	17
Resistors:	128
MOSFETS:	8
Refresh Rate :	122Hz
Dimensions:	28cm ³
Lines of Code:	1700+

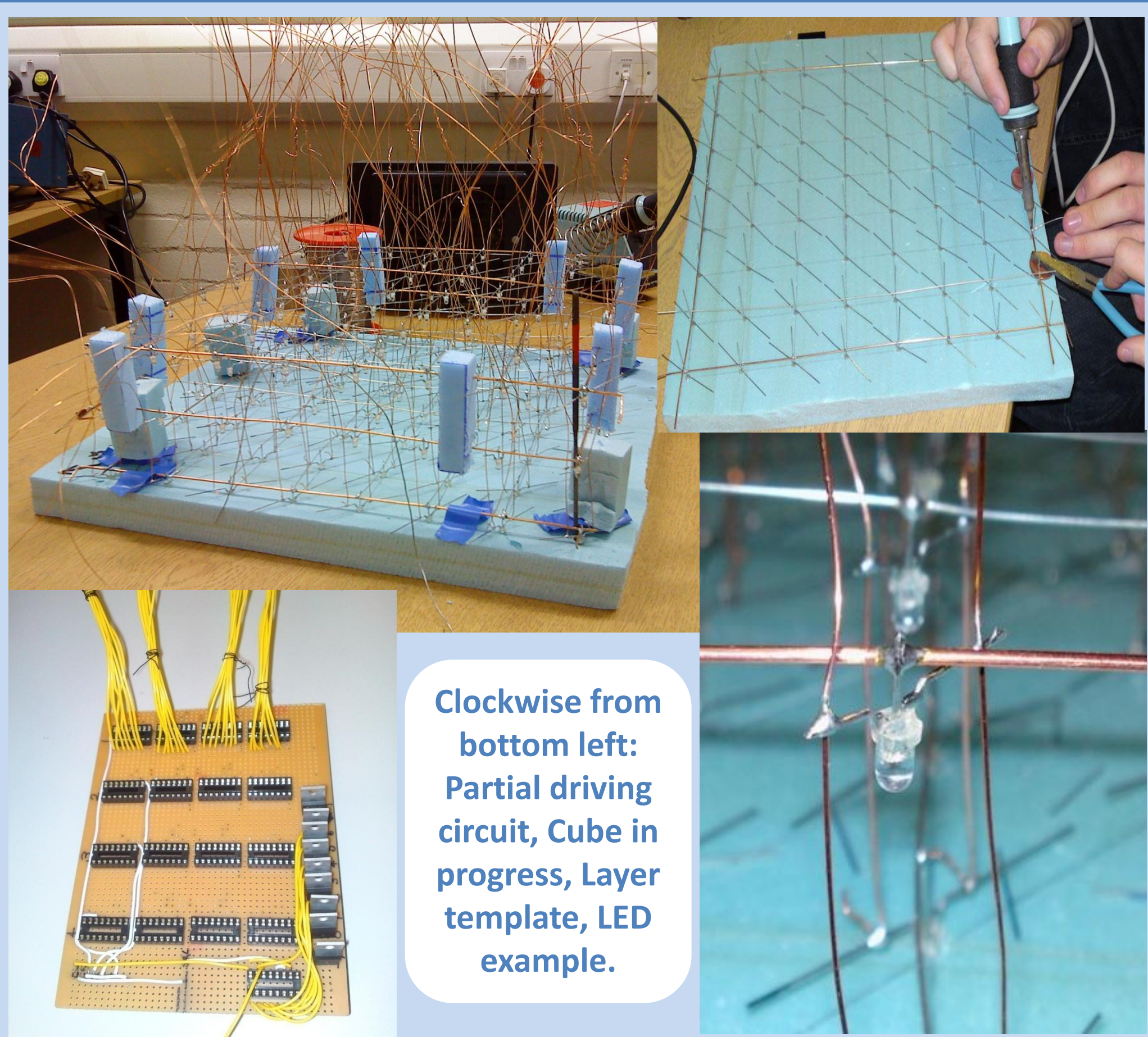
Design

Building

Code Overview

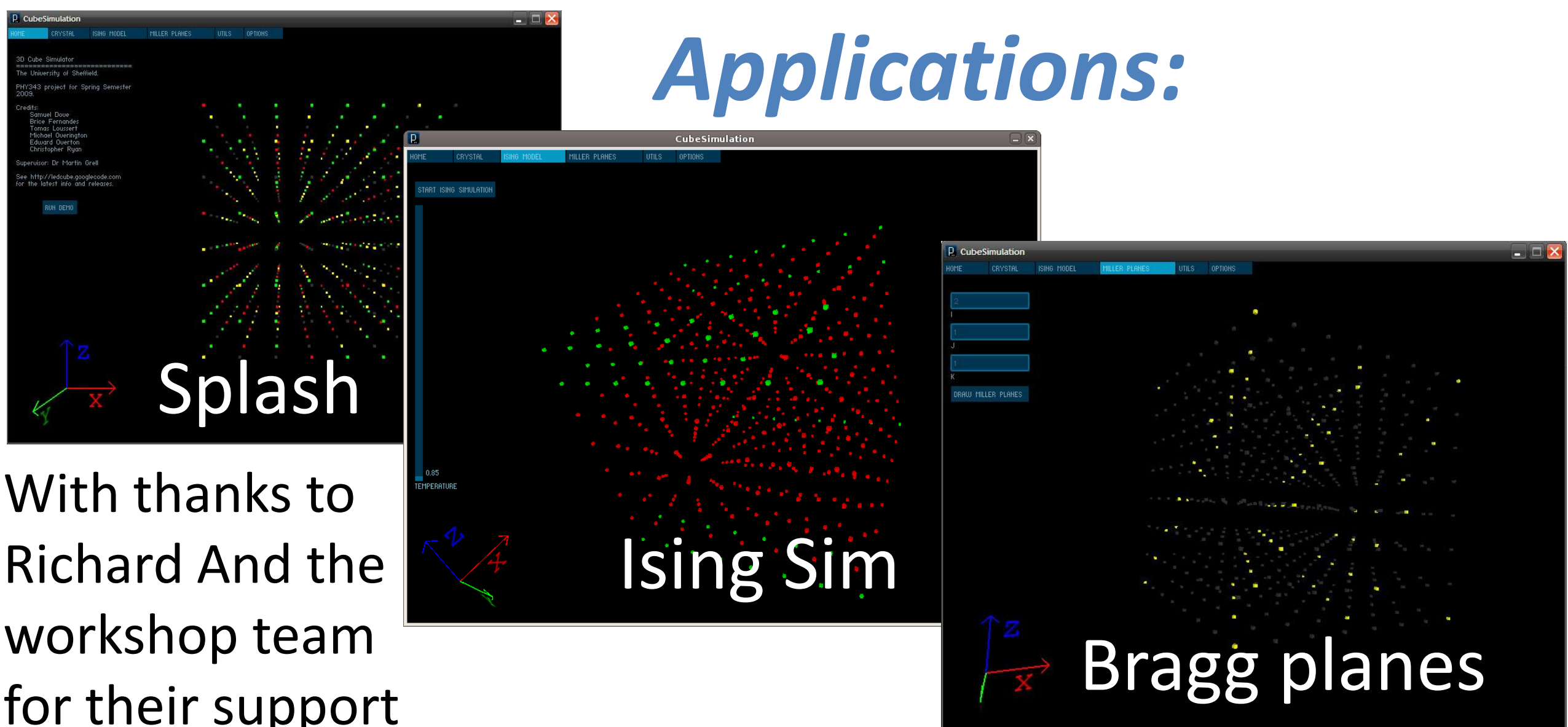


Product



Clockwise from bottom left: Partial driving circuit, Cube in progress, Layer template, LED example.

Applications:



With thanks to Richard And the workshop team for their support