EP1000

What's Owing...
ToDos

EP1000 Documentation Site

- Use a template (Jake Wright, etc), modify to your own personality

- Site must use HTML and CSS

- Register your site using github
  Maintain your site using git

- Submit your site URL to
  https://tinyurl.com/ep1000sites by 28 May

3D Design

- Fusion 360 design of a chess piece – Knight
  - Extrusion
  - Revolution
  - Solid manipulation
- Display of design on project website
- .f3d file
- Required for 3D Printing (Term 2)

Music box with lid

- Fusion 360 design of box
  - Using parameters.
  - Design to fit mechanical music generator
  - Has lid (removable)
- Preparation of DXF layout for laser cutting
- Write-up on website
  - Embedded design
  - .f3d file, DXF layout
- Required files for Laser cutting

Astable using 555

- Convert a circuit diagram and implement it on a breadboard

- Simulate using TinkerCAD

- Additional:
  - Change values of R an C to see effects

- Document your work

- Physically implement the circuit using a breadboard and components

Uno with 7-segment display

- TinkerCAD simulation
    - Uno
    - Common Cathode 7 Segment LED display
- Counts from 0 to 9 continuously
- Document your work

One Pushbutton SW - many states

- Work through the example in the class using TinkerCAD, understand the program

- Do Assessment 12, simulate using TinkerCAD

- Document your work, embed the simulation on your website

Module Project

- Decide on your module project

- Sketch out the project, casing, chassis

- Write out the requirements
  - Uno/Nano
  - LEDs
  - Switches
  - What to be laser cut
  - What to be 3D printed

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Assessment 2021

End