Propose a vacation student project for Summer 2018

Deadline for making your proposal(s): 17:00 Friday 23 March. This is a hard deadline.

Please fill in and submit this form multiple times for multiple proposals. Any queries, do ask - Toby.

Project supervisor email *

Tim.morris@manchester.ac.uk

Title of the project *

Image processing demonstration tools

Source of funding *

- School funding requested
- You have your own funding (e.g. research grant)

Objective of the project *

To develop tools to aid in delivering COMP27112

Number of students requested (justify if > 1) *

1

Start date, end date, total duration (weeks) *

July 1, 30 August, 8 weeks
The benefit to the School *

1. This will develop tools to let me do interactive demonstrations in lectures, which will let me flip my teaching in this unit.
2. I also plan to have the student develop new lab exercises to make use of raspberry pis

The benefit to the student *

Well acquire/enhance iOS development knowledge, will develop image processing under linux

Skills needed by the student. *

1. iOS and objective C is beneficial.
2. linux, raspberry, python skill are needed, but will have been acquired in year 1

Details of the work that the student would do *

1. develop graph based visual UI for specifying image processing pipelines
2. develop python image processing exercises. These will incorporate OpenCV and probably be ported to raspberry pi to demonstrate real-time vision applications

Infrastructure requirements and any required staff support other than the project supervisor *

None

Supervision arrangements throughout the duration of the project (named staff and dates covering the entire duration) *

Tim Morris
Location of the project work (building/room) *

Kilburn/AIG

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