

# Engineering Tripos Part IIB

## Project Planning Form 2022/23

**Students** should submit this form to Group Administrators by **Friday 10 June 2022**. If plans evolve over the summer, please update and resubmit.

Name of student: **Daniel Siromani**

Email: **ds909@cam.ac.uk**

College: **Jesus**

Director of Studies: **Prof. Tim Wilkinson**

Project is: Type (a) / ~~Type (b)~~ (delete as appropriate)

Name of supervisor: **Dr. Elena Punskeya**

Short title of project: **Data of your Heart: Screening for Atrial Fibrillation**

Project reference code (e.g. B-ANO22-1 / B-ANO22-type(b)): **F-op205-1**

Aims of project: **To develop a model which detects signs of atrial fibrillation (AF) from ECG data. As part of a large scale study screening participants for atrial fibrillation the application for the model would be to order ECG recordings from each participant prioritizing those which most exhibit AF for diagnosis by a cardiologist.**

Preparatory work for the long vacation:

**To familiarise yourself with background literature and methodology used in PhysioNet Challenge 2017**

**Obtain understanding of the data available, protocol for its capture and the challenges involved**

**Obtain a detailed understanding of the problem**

Workshop/laboratory facilities needed:

**N/A**

Any special safety implications:

**Working with computers for extended period of time**

Signature of student:



Signature of supervisor:

