# 202112533 Own Project Proposal Template

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| Student Name | Thomas Hammond |
| Student number | 202112533 |
| Degree programme | Computer Science |
| Project title: | Digital Car switch board and cluster |
| DESCRIPTION: | Overall project aims  Create a switch panel which can be used in place of a radio for racing or drift cars which will be able to control various circuits within the car and monitor things such as temps and pressures.  Outline  I am aiming to design software for a car which will allow a raspberry pi to be able to display a switchboard type UI to the user which when clicked will send a signal to control the device in question. I would also like to add digital gauges such as water temperate and oil pressure. I gained this idea from my own experience as currently have a car with a old fashioned mechanical switch panel and thought it would be a great way of adding extra features to a already small space.  Expected outcomes:  Have a working digital switch panel which runs on 12v ignition of the car and can turn on and off selec.  3ted circuits as well as monitor car parameters |
| Software, hardware and OS details (*only needed if the project has non-standard requirements*) | Raspberry PI, Raspberry PI Screen (Not yet worked out what size and specs), 12v to PI connector, Bluetooth OBD2 port |
| Academic staff who have discussed the proposal (full names and signatures required) |  |
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| **Note: the overall proposal should be no longer than two A4 sides.** | |

When this form is complete *and signed off by staff member*, email it to [P.A.Robinson@hull.ac.uk](mailto:P.A.Robinson@hull.ac.uk)