EGH446 Autonomous Systems

**Major Project – Individual Report.**

Instructions: replace the yellow highlighted text with your own words (that is, delete the yellow text). You must use this template (not alternative template).

Individual details

|  |  |
| --- | --- |
| Author | Your name |
| Sub-systems | Summarize work done. |
| Project Partner | Insert your group member name here |

System description (group’s own words, allowed to be same as your group partner)

|  |  |
| --- | --- |
| Overview of your system | In your group’s own words, describe what and how the submitted version of the system does. How it works. Its key feature (which techniques where used).  Discuss how the sub-systems interacted. Which was the weaker sub-system?  Minimum 700 words |
| Performance | What was your total time? |
| Interfaces | In your group’s own words, describe how the team manages the interfaces between the sub-system. Did they remain constant during the project, or change?  Minimum 100 words |
| Limitations | In your group’s own words, describe failure cases, or cases, that your implementation of the system was worse than expected.  Minimum 500 words |
| Figure of the route defined by the waypoints and vehicles path. | Include a figure of the vehicle’s trajectory and waypoints. |
| Report on cross track error | Minimum 200 words |

Sub-system(s) description (individual student’s own words)

|  |  |
| --- | --- |
| Overview of function | In the individual student’s own words, describe what and how the submitted version of the sub system does.  Minimum 500 words |
| Performance analysis | In the individual student’s own words, describe testing and performance analysis on your sub-system (as distinct from whole of system performance).  Minimum 300 words |
| Pros | In the individual student’s own words, describe positive attributes compares to other solutions approaches you considered.  Minimum 500 words |
| Cons | In the individual student’s own words, describe negative attributes compares to other solutions approaches you considered.  Minimum 500 words |
| Limitations | In the individual student’s own words, describe failure cases, or cases that your implementation of the sub-system was worse than expected.  Minimum 300 words |

Description of all code or Simulink blocks developed by student. (individual student’s own words)

|  |  |
| --- | --- |
| Function/module name | Purpose:  In the individual student’s own words, describe matlab function of Simulink model/block. What is does and how. Reference/links to technique.  Less that 100 words  Inputs:  Describe input signals/data. Dot points.  Outputs:  Describe input signals/data. Dot points.  Functions this function/module calls.  List functions/modules this module calls. Dot points.  Functions this function/module called by.  List functions/modules this module is called by. Dot points |
| Repeat for all code modules/blocks written |  |