**ALGORITHM (FUZZY CONTROLLER) DOCUMENTATION GUIDE**

Provide the required details using the following guide.

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| **Components** | **Details** | **Intructions** |
| Inputs |  | Specify all the inputs, including the coefficients (constants). Note: This assignment requires implementing Yamakawa’s fuzzy controller design. |
| Fuzzy Rules |  | Specify the fuzzy rules used in your system. |
| Fuzzy Membership functions |  | Specify the parameters of all membership functions used for each of the inputs. (e.g. input, type, fuzzy set name, a=?, b=?, c=?, d=?)  Use the Fuzzy Sets Viewer Excel file to generate a diagram. |
| Defuzzification Method |  | Specify the method used. |