Brief Description of m-files in “Project2 \_ Risk based Analysis Evaluation Framework/Experiment1 \_ Risk based Evaluation Platform:”

Last update on **07/22/2020**

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| File type | File Format | Unique Characteristics | Multiple Versions? | **Data file name** |
| Simulator Data | .mat | Structure with 195 elements. Each element has 2 fields, Input and Output, to record data used or generated in each manufacturing scenario simulation  Data can come from main script (Script\_RiskEvalPlat\_v01.m**)** | No (for now) | **ExperimentSet.mat** |
| M-File Simulator Function | .m | Manufacturing Scenario Simulator Function  Used in: Script\_RiskEvalPlat\_v01.m  Functions used: FunMeanFilt\_v02.m | Yes, other version in folder “Project1 \_ Multi stage Production Simulator,” by name of MfgAnalyzerV1.m | **FunMfgSimulator\_v02.m** |
| M-File Math Function | .m | Mean Filter Function  Used in: FunMfgSimulator\_v02.m | Yes, other versions in folder “Project1 \_ Multi stage Production Simulator,” by names of meanfilt[#].m | **FunMeanFilt\_v02.m** |
| M-File Visualization Function | .m | Plot-making Function  Used in: Script\_RiskEvalPlat\_v01.m  Input dataset may be from: ExperimentSet.mat | Yes, other versions in folder “Project1 \_ Multi stage Production Simulator,” by names of MakePlots[#].m | **FunMakePlots\_v02.m** |
| M-File Main Script | .m | Main Script!  Calls on the following functions:  randfixedsum.m  FunMakePlots\_v02.m  FunMfgSimulator)v02.m (which in turn calls on FunMeanFilt\_v02.m) | Yes, on version 1, anticipate future updates | **Script\_RiskEvalPlat\_v01.m** |
| M-File Archive/Practice Script | .m | Archived practice code for different pieces that were developed in this Project’s experiments | No | **Prj2\_Exp1\_Archived-PracticeCode4-Development.m** |
| Folder for function | - | M-file function from Matlab File Exchange, use is optional in | No | **randfixedsum** |