

Implementation of SPC and DE Techniques in Automotive Industry

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The objective is to study to what extent the SPC techniques have been applied in the automotive industry for both the statistical process control as well as for the process improvement.

In the first phase of the MEng project development, a thorough literature review will be done focusing mainly on the case studies dealing with the SPC implementation in the automotive industry.

Two interesting case studies will be selected for a detailed study and analysis. Finally, selected SPC and DE tools will be applied to real data, focusing on achieving process stability and improving process capability. Note: In addition to the listed topics, topics in the area of process/quality improvement, maintenance, reliability, production and inventory control are possible, interested students should contact Prof. Makis, e-mail: makis@mie.utoronto.ca.