ELE829 – System Identification

- **Course Outline**

  http://www.ee.ryerson.ca/undergraduate/dcd/ele829.html

- **Key Knowledge to Be Acquired**

  Fundamental knowledge in system identification: nonparametric models in time and frequency domains, designing data collection experiments, deterministic-stochastic parametric models, least-squares identification algorithms, correlation analysis for diagnostics and model validation.

- **Key Skills to Be Mastered**

  Data collection, diagnostics, model selection, identification and validation using MATLAB. Application of theory to real-time systems (identification of a servo-positioning system).

- **Potential Careers**

  Control systems engineers, Power system engineers, Robotics engineers, Mechatronics engineers, Embedded systems engineers, System integration engineers, Instrumentation engineers

- **Potential Employers**

  Potential employment are in the following industries: automotive, aerospace, oil and gas, power generation, financial institutions, etc. Some examples: Honeywell, Johnson Controls, MD Robotics, Hydro One, Ontario Power Generation, banks (financial modeling), etc.

- **Graduate Studies**

  University of Toronto, University of Waterloo, University of BC, McGill University

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