MEng Design Project Announcement – 2018-19 AY

**Project title:** Design and simulation of a camera and associated signal processing circuitry.

**Brief Description of Design Project Goals:**

**Overview:**
Students will design a camera in Cadence and write code to convert real images into Cadence stimulation waveforms. Time permitting, students will also design memory and image processing circuits.

**Specific MEng Contribution:**
Students will learn the industry-standard Cadence IC design software and how to convert real-world signals into Cadence-compatible stimulation files. Students will learn how to architect and test a moderately-sized mixed-signal integrated circuit.

**ECE Field Advisor Name:** Alyosha Molnar
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**Number of MEng Students Needed:** Two is preferred.

**Required Skills:**
Basic Cadence knowledge on the level of ECE 4530 or ECE 4740. MATLAB, Python, or a similar scripting language.

**Estimated Project Time Frame:**
2018-19 Academic Year, Two (2) Semesters