Option 1:

**Parallel Computing for Simulation and Design of High-Speed Systems**

The computing platform in recent years has gone through a major transformation, with the single processor based systems being replaced by multi-core platforms. Highly parallel computers offer enormous computational power needed for solving some of the most challenging computational problems.

Several projects related to parallel simulation of high-speed circuits and systems are targeted to provide students with the opportunity to learn about simulation concepts in general, and parallel algorithms/tools in particular. Specific software implementation is flexible and open for your innovation including the use system partitioning, machine learning, neural networks. Several of these projects were originated based on interaction with industry.

*Enrollment in ELEC 4506 is required.*

Option 2

Use your innovative skills and propose your own project.

As a starting point, see
https://www.elprocus.com/eee-project-ideas-for-final-year-engineering-students/
http://nevoprojects.com/project-ideas/electrical-project-ideas/
Or similar websites.

*Maximum number of students to be accepted: 5*