

## **Title: CAN Bus for Vehicular Network System**

### **Abstract:**

This speech reports the study results in teaching courses for control area network (CAN) systems. The CAN system course prepares students for their professional careers in vehicle network which will become more crucial and compulsory in next decades. Furthermore, this paper investigates the pedagogy of CAN systems originally. This study utilized the inductive teaching and learning methods such as inquiry learning, problem-based learning, and project-based learning. We developed an automotive electronic training board that may confront the students with authentic problems. We also synthesized a pattern CAN unit that assists students in distinguishing their shortcomings or excellences in their hardware design. An evaluation for the hybrid approach of the inductive methods indicates that there seemed to be a significant improvement for students although the data were too insufficient to support this approach[1].

[1]J.-S. Young, "Hybrid inductive teaching methods for a course in CAN systems: a case study," *International Journal of Electrical Engineering Education*, vol. 50, pp. 46-56, January 2013 2013 (SCI).