**Project Title:**
**Kicking Mechanism for Pioneer 3-DX Robot, RoboCup**

**Team Members:**

Mr. Landry Nzudie (CmpE & EE)
Mr. Charles Craft (EE)
Mr. Francois Mikobi (EE)
Mr. Mark Macki (ME)
Mr. Miguel Tostado (ME)

**Faculty Advisors:**

Dr. Yanfei Liu (ECE)
Dr. Jiaxin Zhao (ME)

**Area: Multi-disciplinary**

**Sponsored by:** Raytheon

Raytheon has provided a Pioneer 3-DX robot base for the development of a RoboCup Middle Size League robot soccer player. RoboCup is an international organization pitting two robotic soccer teams against each other. Our team's mission is to design and build a kicking mechanism and a microprocessor based unit to interface and control the kicker with the provided base robot. When completed, the final robot should be programmed to locate an orange, size 5 FIFA ball on a green field, approach the ball, orient the ball towards the goal, and finally kick it in that direction. The robot should meet the RoboCup rules applicable for a single Middle Size robot soccer player.