

SOCIETY OF PHYSICS STUDENTS (SPS) EVENT

# **Summer CO-OP at Philips: Designing CT**

**Achille Nicoletti**  
Cleveland State University

Abstract:

A cooperative educational experience (CO-OP) is essential for one's academic and professional growth. In this presentation, I will relate my cooperative educational experience at Philips Healthcare with the knowledge acquired in the academic environment. The primary focus of Philips Healthcare in Ohio is medical systems, specifically CT, MRI and PET. However, the position that I held was in the field of Power/Digital Control in CT. One of my priorities at Philips was to determine the fault causes of various circuit boards on a CT system. I also helped in the designing process of robust circuit configurations. I have also worked for the Physics department, where I have analyzed the focal spot deflection of a CT system. The practical uses of Engineering and Physics are implemented in the industry by using the learned concepts in the educational setting. Thus it is imperative that one grasps these concepts, as they are vastly used in many scientific industries. As both an Electrical Engineering and Physics major, I believe that my 8 month CO-OP experience at Philips Healthcare has reinforced my practical skills by actually being exposed to the physical entities. Moreover, I have gained social experience by learning the proper communication methods used in the technical industry.

WHERE

**SI – 117**

WHEN

**Noon- 1pm**

**Tuesday, October 13, 2009**