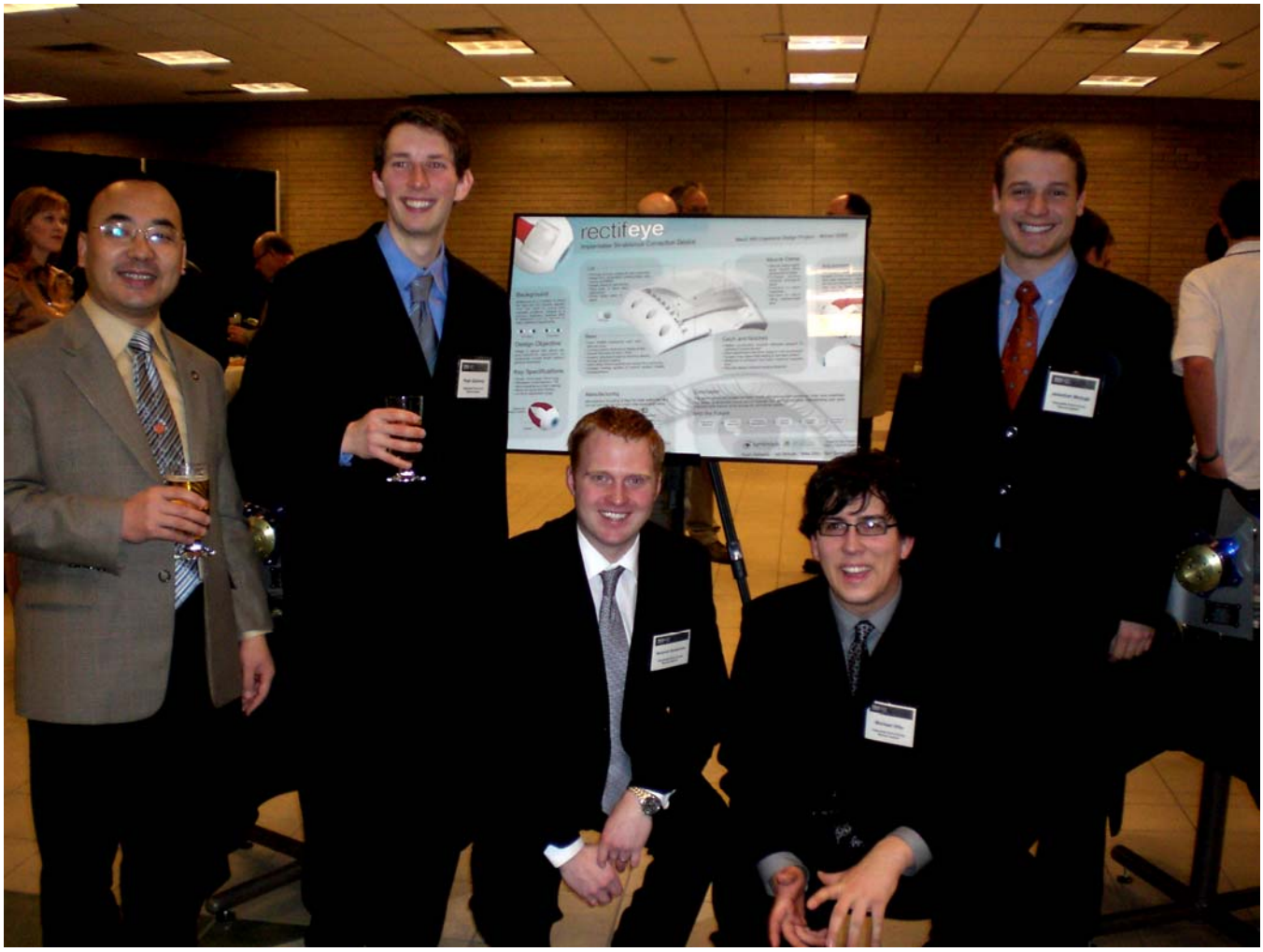
Implantable Strabismus Correction Device

Winter 2009 Mec E 460 Capstone Design Project



The team from the University of Alberta—composed of Ryan Galloway, Jeb Molcak, Mike Otto, and Ben Sunderland—presented the design for an implantable strabismus correction device. Strabismus is a condition where the eyes are not properly aligned; surgical correction through the adjustment of ocular muscle length is possible but repeat surgeries are frequently necessary. The proposed implant would allow the surgeon to change muscle length post-operatively under local anaesthetic with a minimally invasive adjustment procedure, thus rendering a full repeat surgery unnecessary. This improves patient satisfaction and has the potential for great cost savings. The team was supervised by Dr. Yongsheng Ma (far left in the picture).