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**Triathlon TS Poly Insert Post Removal** Stryker Corporation, with corporate, manufacturing and R&D facilities in Mahwah, NJ is a broadly-based, global leader in medical technology that works with respected medical professionals to advance meaningful innovation, reduce health-care costs and improve people's lives. This project will be sponsored by the Knee Engineering Division of Stryker Orthopaedics.

The Triathlon Total Stabilizing (TS) Knee System is used in revision knee surgery. In some cases the insert poly has to be swapped out of the system during a subsequent revision surgery. To do this the stabilizer post must be removed from the baseplate and tibial insert. The current method for removing the post produces a lot of poly debris, which can be very harmful to the patient if left in the body. For this project we ask the students to develop a device/mechanism for removing the post to make this procedure simpler and more fluid. The device must be low cost, easy to use, cause little to no debris and be safe for the surgeon and patient.