Tommaso Greco is native of Lamezia Terme (Italy). After the high school he moved to Turin where he took his bachelor degree in electronic engineering. Then, after a year spent in Manchester (UK) to study English, he went back to Turin for the master degree in mechatronic engineering. In this context he spent 6 months in France for an Erasmus exchange program and is now carrying out his final project at Purdue University. His hobbies include playing basketball and rugby and traveling.

New Scholar on the Block

Visiting Scholar: Tommaso Greco

Title: Visiting Scholar

Host Professor(s): Professor Andrea Vacca

Duration: 6 months

Location: Maha Fluid Power Research Center

Research Interest in ABE:

Every year NFPA (National Fluid Power Association) is challenging groups of students in designing and building a human powered vehicle in which the power transmission is based on hydraulics solely. Purdue University has been participating every year since 2013, and this time Tommaso Greco oversees a team of undergrads to create a competition-winning vehicle. In order to do that the hydraulic system has to be designed and optimized together with the electronic system needed for its control. The frame has to be designed and of course all the vehicle needs to be put together and field tested.

Application:

In the past few years, a lot of research has been carried out in order to explore alternative solutions to the chain-based power transmission in bicycles and vehicles in general. This research, even if in the context of a challenge between students has the goal of studying the use of hydraulics to perform the power transmission.