**SD2711 – Small Craft Design, Spring 2019**

**Accomplishments**

* Reflected on course content actively in lectures and seminars
* Demonstrated well understanding of all ship design aspect through actively participating workshop
* Took the main responsibility of redesigning an innovative dual clutch system
* Took in charge of the steering mechanism group
* Performed well in the current design state
  + Understood well of the Maribot Vane concept
  + Collected extensive background information on Maribot Vane 1st generation
  + Inspected and reviewed the previous collected data
  + Conducted a well-balanced power analysis for the current Maribot Vane 2nd sailing boat
  + Designed the production plan for both steering mechanism as well as rudder design
  + Constructed the main clutches as well as rudders
  + Prepared well-content presentation material
* Overall, dedicated a self-motivated research work ethic, led to strong academic performance, anticipated to devote more in scientific researches

**Master thesis accomplishment**

* Set up the hardware simulation testing environment (i.e. sonar equipment and signal processing techniques)
* Diagnosed the current sensing model, learning and formulating a upgraded one