

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