ExCel Mini Report – JAZARI online Robotic Workshop (JoRW)

<u>Justification in joining the activities</u>

JAZARI online Robotic Workshop (JoRW) is an online workshop organised by UTM JAZARI Innovation Club. The online workshop lets the participants could be exposed to three main fields of knowledge which including mechanical, electronic, and programming. Other than learning the knowledge from the mentors, there are also interactive quizzes and hands-on assessments to test the participants' understanding. The event was held from 6 November until 7 November 2020. The platform they used to carry out the online workshop is Discord. I knew about this workshop from my friend via WhatsApp group and I am quite interested in the robotic workshop, so I decided to participate to gain the knowledge.

<u>Graduate Attributes</u>

- Communication Skills

  During the workshop, participants would be allocated into different mentor and mentee groups. Each group would have about 10 participants. Therefore, communication skills are quite important for me to communicate with people that not familiar with. When I had some questions, I would switch on my microphone to ask my mentor the questions.

- Thinking Skills

  Throughout the workshop, we need to think about the solutions to solve every problem. During the electronic slot, we need to think about whether the connection between the devices on the circuit board is correct or not and we need to troubleshoot the problems when the circuit does not work. During the mechanical slot, there are two joining methods to join the materials. Thus, we need to consider the best joining method depends on the materials. During the programming language, we need to debug the coding if there are any syntax errors or logic errors. All these three fields require high-order thinking skills and critical thinking.

- Adaptability

  Since this workshop gathered a lot of participants and mentors from different faculty, and this was my first time joining the online workshop, thus I need to be able to adapt to the new learning environment. Besides, I also needed to familiar with the Discord application before I joined the workshop because I did not get to know about this application before. Thus, I would explore the application to avoid making any mistakes when the event was carried out.

- Global Citizen

  This event encourages us to utilise knowledge and skills that we had learned to develop great inventions in order to ease our daily lives. We also need to always keep up with the trends so that we won't be outdated to fit the era's needs. The event let us able to combine ideas and to come up with outside-of-the-box approaches to problems.

Content of Activity

The event was held for two days. The first day is on 6 November 2020 (Friday), the mentors checked for attendance and then there will be a workshop briefing given by the presenter. At about 10.00 a.m., the JAZARI Advisor and the programme director gave the talk. They introduced some information about JAZARI Innovation Club. After that, the lecture for the mechanical module started at about 10.30 a.m. At 4.00 p.m., the mechanical module was ended and there was a sharing session about 3D printing by JAZARI Alumni. We ended up on the first day of the workshop at 5.30 p.m. The second day is on 7 November 2020 (Saturday), the electronic module is started at 9.30 a.m. The electronic module was ended at 12.30 p.m. and participants would have their lunch. After that, the programming module was started at 2.30 p.m. and ended at 5.00 p.m. During every part of the module, there would be a talker who gave the lecture, "Q&A" session via Bot, Quiz via Kahoot, and the hands-on session. We need to show our works during the hands-on session to the mentor and the mentor would review our work and gave some comments. Finally, the workshop ended at 6.00 p.m.