CHUI’S STUDENT EXCELLENCE SCHEME 2018 REPORT

BMFA Challenge Team 2,
BEFORE

Competition

Prepare for the competition, we do some amendment after the test flight

DURING

Competition

Fine tune on our airplane, prepare for the presentation to the judges, and communicate with other team.

AFTER

Competition

Celebrate and go to visit Airbus in United Kingdom.
INDIVIDUAL REFLECTION

CHO YU CHARLIE, WAN

Joining the BMFA Flight challenge was a precious opportunity for me and our group to put what we learnt into practice. In this four years, we have learnt theories from different aspects, like thermodynamics, mechanics of fluids and solids. Yet, when it came to actual practice, there were a lot more to be considered. It had been a great challenge for us to design, build and fly our plane. Fortunately, we all have different specialties, some are good at drawing CADs, some like building models, that we could give full play to our strong points and have mutual benefits. I am glad that we got a satisfactory result, and that aspire me to pursue my career in the aviation industry. Despite all the difficulties we had gone through, it was a delightful experience working for a year with my groupmates and joining this international competition.

SHU HIN, CHAN

This summer, we participated in the BMFA payload challenge. Although our team only got the 5th place, this competition has benefited me a great deal. Before the competition, we had done many researches and studies on designing the RC plane. As our team decided to customize a fighter plane instead of traditional one, our workload was very high. Thanks to the support of team members, after several overnight construction process, we could build the plane just 2 days before the competition. During the competition, we acquired a good team cooperation, each of us were responsible for different unique parts. In one of the flight test, our plane was crashed and damaged due to some mistakes in assembling process. Thus, we needed to repair it in a limited time, but we were undaunted in the face of danger since we had foreseen this condition. Besides, we met many teams around the world and interacted with them about the design of the plane and the experience, which had given us a great opportunity to learn more. Finally, after our make unremitting efforts, our plane could carry 1.5 kg payload, which was already a huge success.

POK MAN, YEUNG

Subsequent to joining the opposition, my specialized learning and delicate aptitudes are significantly upgraded. I learnt the structure of the plane and outline thought which matches with the opposition point. Likewise, the critical thinking abilities were improved when our gathering needs concoct an outline that conveys water as payload utilizing a standard drive unit. We likewise prepared up out report composing, building drawing abilities.

The opposition gave me an awesome chance to converse with different groups from different urban areas, for example, groups from all around the world I truly welcome the amazing plan of alternate groups. Luckily, we can share and trade our thoughts and encounters. In the meantime, the group is exceedingly refreshing for sharing materials and attempting to help each other. We share these instruments and parts, yet we don’t put the positioning to begin with, yet help other people who require need. The competitor’s soul of development awed me.
**KIT MAN, WU**

After joining the competition, my technical knowledge and soft skills are greatly enhanced. I learnt the structure of the plane and design consideration which matches with the competition aim. Also, the problem-solving skills were enhanced when our group needs think up a design that carry water as payload using a standard propulsion unit. We also trained up out report writing, engineering drawing and presentation skills as we are required to produce a set of 3 view drawings and a formal report on the design, and also required to conduct a 5-minute presentation to a panel of engineering judges.

Other than that, the moment that all the team members fighting for the project was really unforgettable and the teamwork and communication skills were enhanced. And the competition was a great opportunity to meet aviation enthusiast from the world-wide. During the three days competition, we communicated and exchanged ideas with other teams so we know more about the alternative designs. Also, we helped with each other during the preparation time and the sportsmanship was honorably shown throughout the competition.

**HIU LAAM, YEUNG**

It has been a fruitful experience throught out the BMFA payload challenge competition. Lots of incidents happened during the time in British has taught me a lesson. Among them, the crash of our modal plane when having a test flight is the most serious issue. When our plane crashed, it was only one day left before the competition. We were afraid that we were not able to take part in the competition. However, we immediately thought how to repair the plane together and fixed it by seperating works. Some of us went back to the hotel and got the material needed for the repairing. The rest of us stayed at the field to repair the plane. At last, after a whole day long,our plane could fly at night on the same day. The teamwork is the most important factor to make it success and it made me think that the communication and division of labour is crucial when facing obstacle.

**KI, NG**

With the support from the funding, I am glad to have this valuable opportunity to participate BMFA model plane flying competition in the UK. It is also my very first time to get involved in an oversea competition. I would never forget every failure and success we experienced, the heart-beating moments, and more importantly the sportsmanship of the teams in the competition.

In the early manufacturing, we had many trials and tests on the airplane since we have chosen a non-conventional design and there was no one used in the past competitions. Every time we failed, we reflected and made improvements. But somehow it was frustrated for making multiple modifications. Collaboration was not as smooth as I expected. However, as the time passed, we started building up great chemistry, to help each other and to cooperate. It was a priceless experience when we all targeted for the best result of the airplane with camaraderie.

It was still like yesterday when I saw the plane flied with unexpected weights carried. In the test flights, we only aimed to finish a circuit flying. Fortunately, it did not only completed the circuit, but also carried 1.5kg of payloads, which we had never imagined. Every time when I watched the take off, I was so nervous and excited, and I looked forward to its performance so much. I screamed every time it flied up to the sky. The airplane carried our teamwork and team spirit and proved our works to the others. The happiness was irreplaceable.

Apart from earning teamwork, sportsmanship in the competition also inspired me. The competition provided me a great chance to talk to the other teams from other cities, like the teams from Beijing, Liverpool and South Wales. I really admire the impressive plane designs of other teams. It was luckily that we could share and exchange our ideas and experiences. Meanwhile, it was highly appreciated that the teams share the materials and tried to help each other. We shared the tools and parts, while we do not put ranking first, but helping the others in need takes the priority. I really impressed by the sportsmanship of the participants.

At the end, we had the 5th place out of 17 teams. I am really thankful to this result because we might not be the champion, but what we gained throughout the period is far more fruitful than the first place.

An airplane cannot fly with single component, but collaboration of different parts makes it. Without teamwork, we could never make this impressive plane flies.