

# Alumnus Wins Mata Garuda Prize 2021 for Outstanding Work in Science and Technology

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A former Mechanical Engineering student, Fajar Sidik Abdullah Kelana, was awarded the 2021 Mata Garuda Prize on Saturday (30/10). As part of the LPDP Week, an event held by the Indonesia Endowment Fund for Education, the Mata Garuda Prize serves to appreciate every contribution, achievement, and work of the scholarship awardees and alumni.

Fajar is the creator of Banoo, a microbubble generator for fish farming, which can produce micron-sized air bubbles, increasing dissolved oxygen in water by up to 10 ppm. According to him, the tool can increase the growth and yield of fish up to 35% more than others. The device works automatically, thanks to the integrated IoT water quality sensor.

"The device will automatically turn on when the oxygen in the water is low and stop when the oxygen is high enough, thereby saving electricity consumption. In the future, we hope to develop a mobile app to allow farmers to control and monitor water conditions from anywhere," said Fajar, Tuesday (2/11).

He added that his family background became the foundation that encouraged his desire to innovate.



The opportunity to study at UGM motivates him to create more technological innovations that are beneficial to society. He said he didn't expect to win the prize at first because the other nominees seemed more experienced and had outstanding projects and research. Ending his interview, Fajar advised the younger generation to unite and advance the nation.

"It doesn't matter where we come from, rich or poor, whatever our religion and ethnicity. We are all sons and daughters of the nation who must fight for its progress and prosperity," said Fajar.

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