SAFEARM

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There are many industrial accidents caused by mechanical jamming. I thought that if workers work remotely in another secure space, not directly in a dangerous workspace, this problem could be solved. However, even if the work is carried out in another space, the work should be carried out smoothly. I wondered how I could overcome this problem. Finally, I found a device called LipMotion during the data survey. It can detect up to 1/100 mm of human hand movement. So I used this device, the robot's arm and human hand movement can be matched to make the robot's arms moved and this led to the development of SAFEARM. LipMotion makes the robot's end effector coordinate movement value match the user's hand's. It is a sensor that can control all machines like human arms, so that workers can control remotely from their workplace, as if they were working on their own. SAFEARM's primary purpose is to ensure that workers can work safely without threat of life, creating workplace where everyone can work in a safe work environment, and be fully prepared to cope actively with sudden changes in a workplace without accidents directly related to life.

Awards Won: