

Project Case Study

HDL®



The wrestling gymnasium, located on the campus of the China Agriculture University, is about two kilometres west of the Olympic Green. This venue will house the wrestling competitions. It will seat 8,500 people during the Olympic games. After the games the gym will serve students of the university and those in the community.

The newly built CAU gymnasium is the venue for wrestling and volleyball seating competition during the Olympics and Paralympics. Upon entering the gym, one can see that panes of glass separate the roof's steps which can be automatically adjusted to allow for ventilation and to add natural lighting. The skylights provide enough light for daytime activities even in the cloudy weather. The enviro friendly design will benefit the university for cost and energy saving.

The initial design of the lighting control systems was broken up into smaller pieces, modularising function calls and functionality. This increased the products' reliability and reduced the overall complexity of the system, making it easier to maintain.

As the project progressed and hurdles were encountered, SmartHome HDL and the client worked together to develop a solution that was achievable with the hardware, and still met their requirements. Some specifications were relaxed, while others were enhanced. For example, certain features in mode changing and multiple key press combinations were re-evaluated. SmartHome-HDL delivered a final product that exceeded the client's specifications.

Wrestle Gymnasium

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