

Gesture Fan Controller

Open-cv - Arduino

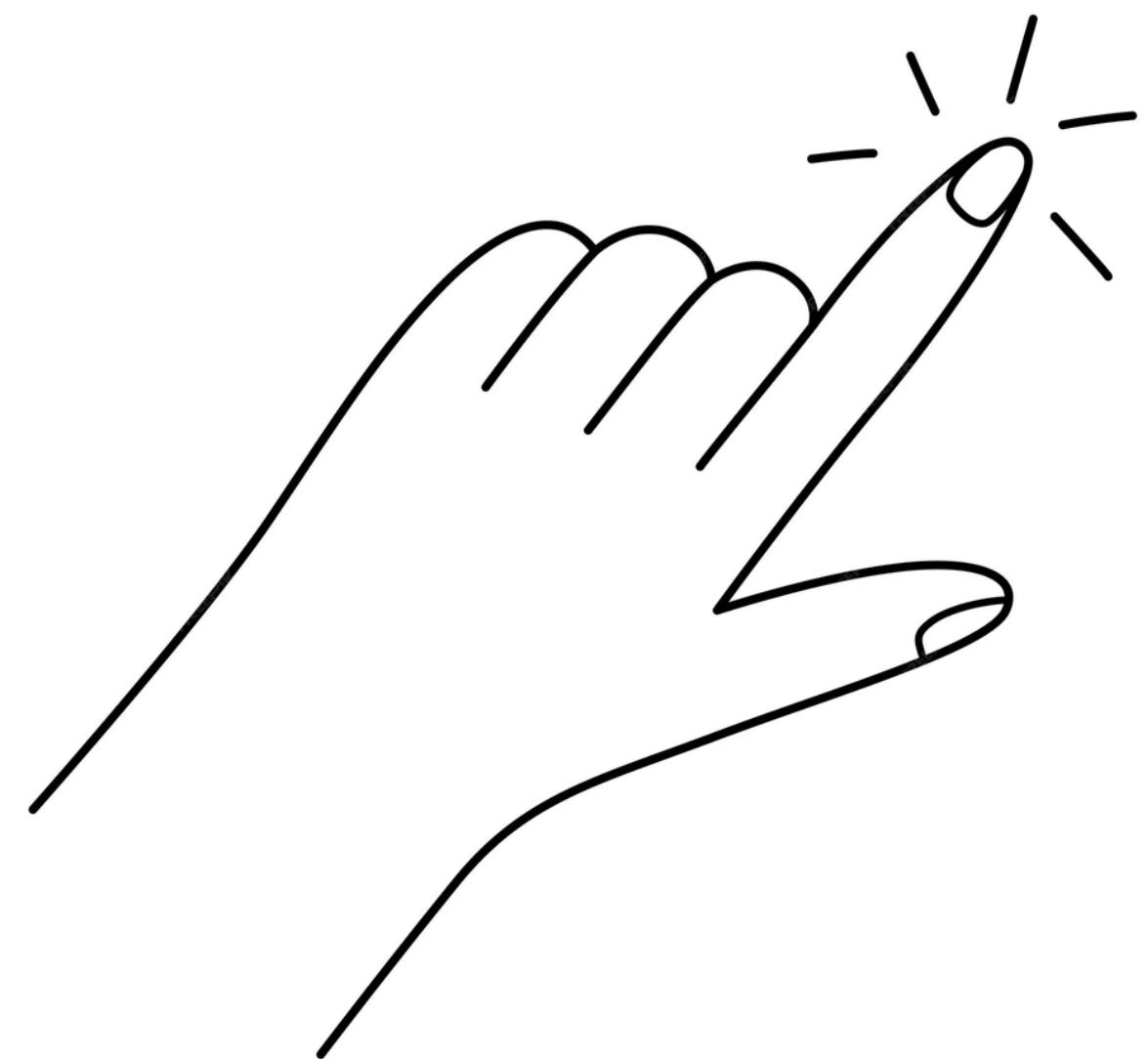
310461004 / 311461001 / 312461801

William Hsu / Bruce Chen / Elena Plutalova

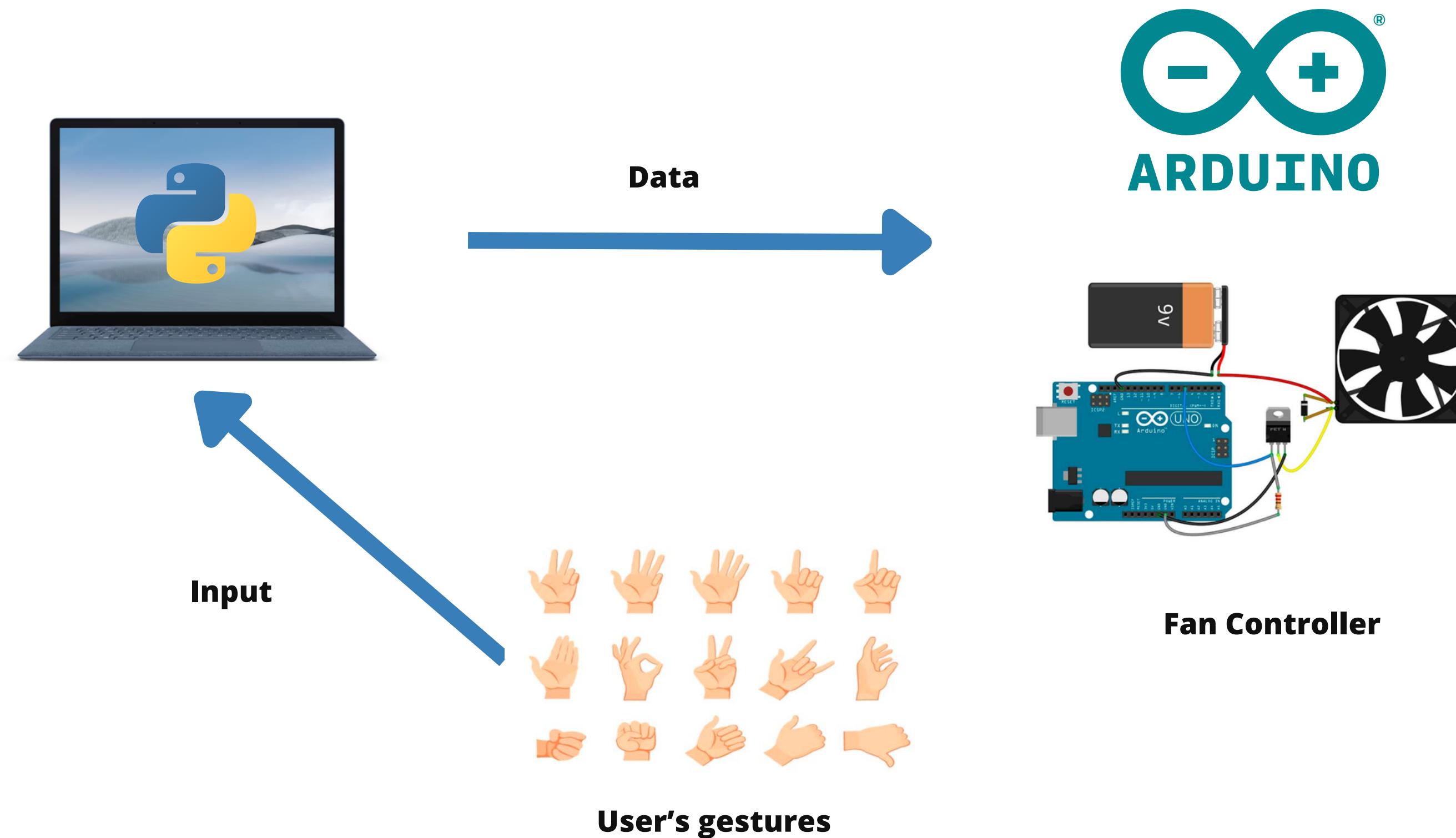


Introduction

"The fan," a common and often underestimated household appliance, is an invention that has been part of our daily lives for centuries. This unassuming device plays a significant role in providing comfort, circulation, and relief from the sweltering heat or stuffiness of indoor environments. Using Open-cv and Arduino to create a fantastic control experience with three speed modes..



Architecture



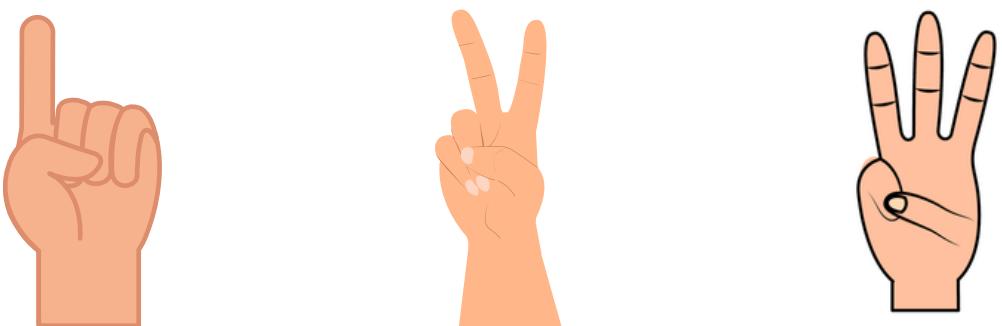
Types of Gestures

We use five distinct gestures to operate the fan, with each gesture triggering a unique command.

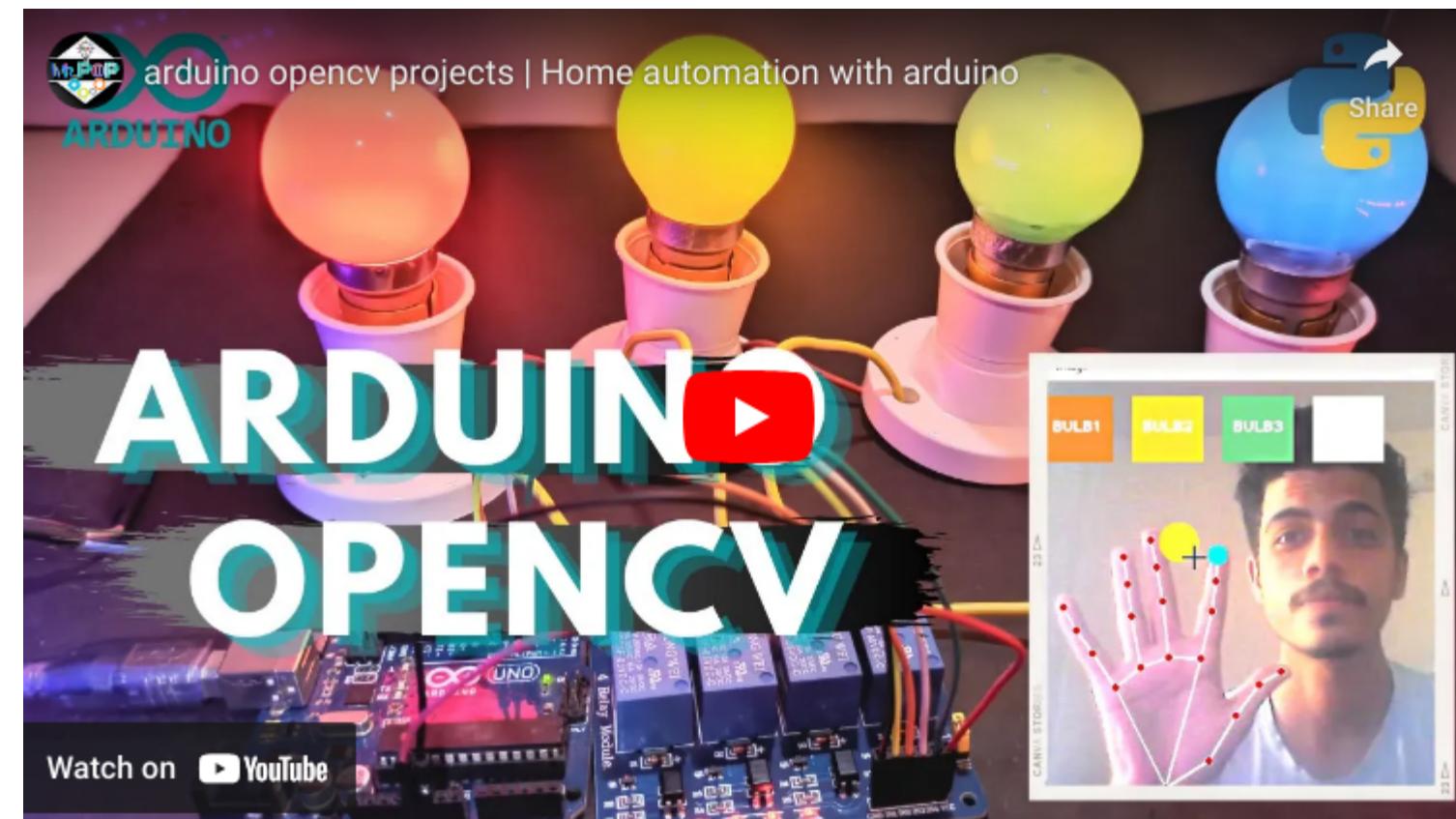
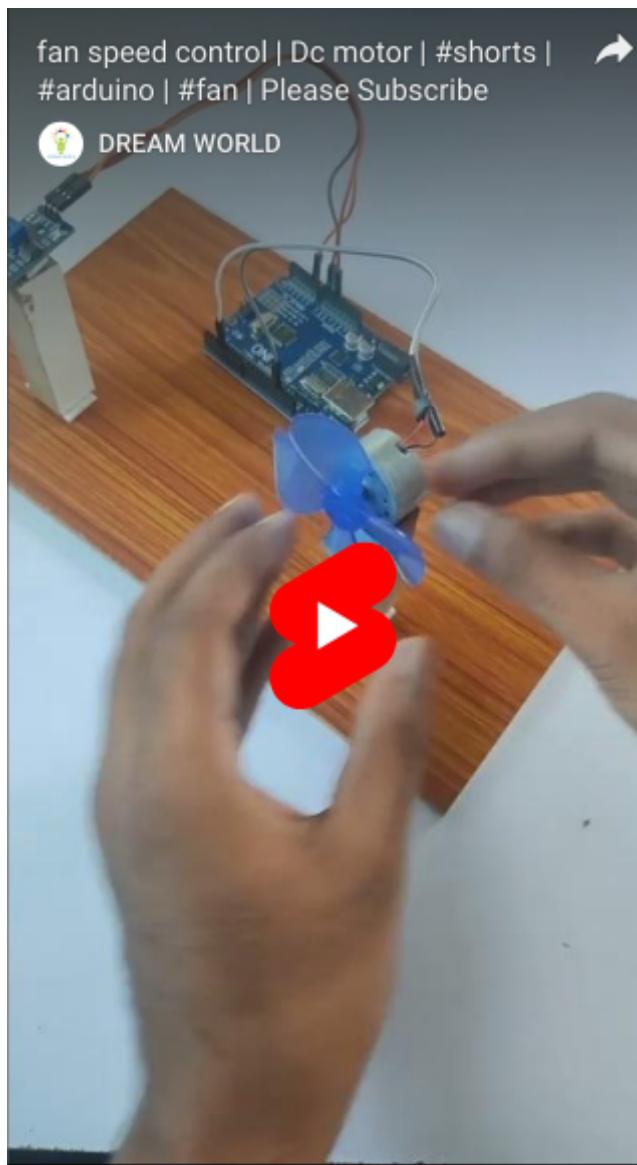
on / off



Modes of speed



Reference





Thank you