

## Hardware Engineer (Contractor)

### Brief of the company and product

Synarbot, Inc. is a high-tech company originated from Cognitive Anteater Robotics Laboratory (<http://www.socsci.uci.edu/~jkrichma/CARL/>) under School of Social Science, UCI. The company leverages the knowledges of the Lab, including cognitive sciences, artificial intelligence, and social robotics. It provides robotic solutions to address social and educational need in our society.

Synarbot, Inc. introduces its first product CARBO, a new ecosystem of smart therapeutic programs for supplemental Autism Spectrum Disorder (ASD) care. CARBO is a novel socially assistive robot designed to supplement ASD therapy at home in partnership with regional and private clinics. The robot provides interactive and cooperative games for children to shape their behaviors and improve their social skills. CARBO also aligns with the Internet-of-Things (IoT) concept as it allows therapists, teachers, and parents remote access to analyze the child's development through the therapeutic program. CARBO interconnects parents, children, and therapists by leading technologies in a cost-effective manner. CARBO's missions are to enhance children's lives, alleviate parent's concerns, and optimize therapists time.

### Job duty

- Optimize existing PCB design,
  - Remove unnecessary components
  - Integrate (merge) 6 PCBs into 1 PCB

### Requirement

- Familiar with Eagle PCB design tool or similar
- Familiar with Microchip PIC series microcontroller
- Familiar with C language and Embedded system programming
- Electrical Engineering graduate student preferred

Salary \$50/hour, up to \$8000

Follow-on contract or full-time position is possible

To apply, please send resume to Dr. Ting-Shuo Chou at [tingshuc@uci.edu](mailto:tingshuc@uci.edu) or [tingshuc@synarbot.com](http://tingshuc@synarbot.com)