Hao Wei Hsu

Robotics and Automation

1F., No.107, Ln. 99, Puding Rd.
Hsinchu City, 30072
Taiwan (R.O.C.)

haowei790818

+886-3-573-6225 EXT: 12162

IanHsu@motorcontech.com

1990-08-18

Software Engineer with 2+ years of experience designing PC-based motor/robot controller projects. An autonomous worker committed to providing high quality product. Proficient in Industrial Automation and in possession of a master degree of Electrical and Control Engineering in NCTU.

Experience

2015-07 - present

Software Engineer
MOTORCON INC.

Responsibilities
- Research and design motion control algorithms.
- Low-level device driver development W/Windows, Linux.

Achievements
- Generic motion control platform MDH1K/MDH1K5.
- Industrial robot controller: SCARA/Delta/Articulated/UR5/Custom type W/EtherCAT interface.
- Industrial trackless AGV system.

2018-02 - present

On-Job PhD.
ARG-NCTU

Education

2012-07 - 2015-05

National Chiao-Tung University, 1001 University Road, Hsinchu 300, Taiwan, R.O.C., Institute of Electrical Control Engineering

Implementation of a four-joint robot to bat a flying ball into a designated location.
- GPU-based image processing W/binocular camera to identify a flying ball.
- An optimization problem for accomplishing the ball-batting task.
- Dynamic model based controller implemented on DSP board.

Skills

Coding Skills

C/C++/C#, Assembly, Script Language (MATLAB, Python)

Operating Systems

Windows/Linux (API, Device Driver)

Embedded Development Platform

DSP F28335, Jetson Tx1, Raspberry Pi3, 8051

Middle Ware

Robot Operating System