**Zhengyu Hao**

Address: K910, Huiyuan Apt. Asian Game Village, Beijing, China

Phone number/Email: 8613466335209/ [haozhengyu2013@gmail.com](mailto:haozhengyu2013@gmail.com)

**Education:**

***09/2008-07/2012*****Beijing Jiaotong University**

**Precision Instruments and Measurement and Control Engineering**, **BEng.**

**Work Experiences:**

* **Cummin Emission Solution (China)Co.ltd 07/2012-Present**
* **Project:** SCR Emission EURO 5 After Treatment Control System Development
* **Duties:** taking charge of the system control tuning and feed -forward dosing command calculation. Designing the control algorithm to achieve the reducing of Nox emission with the input of engine speed and torque
* **Beijing Delphi Technology Development Co., Ltd 06/2011-09/2011**
* **Internship:** analyzed circuit draw and finished the testing tasks according its demands, analyzed the measuring error and tried to find solutions, repaired debugging equipments

**Projects Experiences:**

* **Graduation Design of Pulverized Coal Characteristics Power Analysis And Energy Modeling Based On Fuzzy Logic** **02/2012-06/2012**
* Learned fuzzy logic, understood actual power coal composition with survey, built debugging system
* Extracted various coal characterization parameters and analyzed their relationships
* Constructed fuzzy rules with Matlab and designed the demo interface
* **Family environment safety and detection system 09/2011-12/2011**
* Designed drawings: System flow chart, SCM flow chart, Sensor circuit diagram
* Analyzed sensors performance and compared relevant parameters, measured temperature, humidity, smoke
* **Design for display system of passenger information 04/2011-06/2011**
* Designed system flow chart, programmed MCS-51 to realize the information output of system
* Used existing data to complete data communication and transmission between master nodes and system
* **Mechanical design of washing machine with pedal type 03/2011-05/2011**
* Designed drive system which could move rotary drum with power supply from bicycle pedals
* Searched references and calculated parameters, provided feasible plan

**Course Works:**

* **A series of special research and report of computer control system 10/2011-02/2012**
* Made performance analysis for discrete system with Matlab
* Gained the performance characteristics of discrete system
* **Stability analysis of stepper motor applied to adaptive front-lighting system 10/2011-12/2011**
* Analyzed and compared excitation modes of stepping motor (single phase, two phase) and proved stability
* Tested system stability, analyzed time domain, drew root locus according to the transfer function
* **Single chip microcomputer system design 07/2010-08/2011**
* Selected components as the demands of flow charts and welded circuit board
* Tested the program with connecting to simulation device and analyzed hare ware circuit

**Activities:**

* Minister of School community department
* Team leader of optional course: The way to success

**SKILLS:**

C++ Language, Matlab, C Language, Circuit CAD design