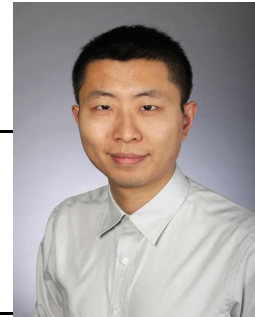


Curriculum Vitae

Xiao Liu



Personal Data

Name Xiao, Liu

Education

- 07/2018 - 10/2018 SPICED Academy
Full stack javascript developer
- 04/2014 - 11/2017 Master program of mechanical engineering
Karlsruhe Institute of Technology (KIT)
Specialization in "General Mechanical Engineering".
- 10/2012 - 01/2014 UstA German Language Course in KIT
- 09/2008 - 07/2012 Bachelor's degree of mechanical engineering
Tsinghua University

Research and professional experience

Full stack javascript developer:

06/2018 - 10/2018

Tech:

- Frontend: HTML/CSS, JavaScript ES6, jQuery, ReactJS, Redux, Vue.js, Three.js
- Backend: Node.js, Express.js, PostgreSQL
- Other: Socket.io, JSON, Git & Github, AWS

Projects:

- **portfolio**: My personal portfolio. Please visit <https://aboutxiaoliu.herokuapp.com/> to see more.
- **easyPC**: An application to simulate the build-up process of a PC system. Using Javascript, including: React, Redux, Socket.io, Node, Express and PostgreSQL, etc
- **Meteo**: A social network project where users can edit their profile, send and accept friend requests, visit friends' profiles, see currently online users and real time online chat. Using Javascript, including: React, Redux, Socket.io, Node, Express and PostgreSQL, etc.
- **Image Board**: An instagram-style image board where users can upload and comment on images. Built with Vue, Node, Express, PostgreSQL and AWS.
- **Petition app**: A petition web app using basic Express router, etc.
- **Connect 4**: The classic game of Connect 4 built with JavaScript, jQuery & CSS.

Legacy experience (mechanical engineer):

Tech:

AutoCAD, ProE, SolidWorks, CATIA, Ansys, Photoshop, FEMA, MS Office, C/C++, Matlab, DEFORM 3D

04/2017 - 11/2017

- Literaturrecherche zu Rollgeräusch in Simulation und Messung: Simulation model for structure-borne noise. A detailed modeling of the tire Interactions between tire, cavity medium, wheel and wheel guidance. Analyze of The FEM model with measurements on the Internal drum test bench.

10/2016 - 03/2017

- Internship at Motor Vehicle Laboratory at KIT: Measurement of the engine performance of test vehicles. Investigation- Shock absorbers. Behavior of car tires under longitudinal forces and lateral forces and tires. Rolling resistance. Energy dissipation and high-speed strength of car tires

01/2016 - 03/2016

- Internship: Planning of Assembly Systems of Mercedes-Benz S-Klasse at Sindelfingen
Planning guidelines, Vulnerability analysis, Planning and evaluation of work systems (technical and organizational structuring principles, capacity planning, proceed diagram, wages system).

06/2011 - 09/2011

- Internship at Inner Mongolia First Machinery Group Corporation: Application of materials processing, mechanical work, automatic control and other manufacturing technologies in modern production system.

01/2011 - 03/2011

- Internship at Changchun Faway-Johnson Controls Automotive systems Co. Ltd: Assisted engineers in 2D&3D mechanical drafting.

12/2011 - 07/2012

- Bachelor thesis Simulation of plastic forming of heavy cylindrical forgings: Physical simulation experiments of hollow ingot lead. Numerical simulation by finite elements analysis (Matlab+DEFORM 3D).

08/2011 - 12/2011

- The design of dexterous robot hands at Laboratory of Robot Technology and Applications, Tsinghua University: Mechanical design of the hand (using a new coupled and self-adaptive COSA) and hybrid grasping mode. Design of the motor control system.

03/2011 - 07/2011

- Design of a late-model automatic doffing machine at Laboratory of Robot Technology and Applications: Schematic design of this doffing machine and its feasibility analysis, force analysis (ANSYS software); design of the motor control system; 3D-appearance design; detail drawing and assembly drawing.

03/2010 - 10/2010

- Research Assistant at Institute of Materials Processing Technology, Tsinghua University:
Designed a small tool made by ceramic to hold the metal micro wires used for the absorption of carbon to manufacture grapheme nanotube in the high temperature furnace.

10/2009 - 07/2010

- Frictional Skyscraper Escaping Device: Design of the Device. Finished force analysis(ANSYS), completed escaping experiments from building tested on humans successfully.

Language

German: fluent

English: fluent

Mandarin (chinese): native

Others

Driving license

Class B

Interest

model making, rts games, swimming, reading, singing, soccer.