

TONG LIU

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EDUCATION

Northwestern University, Evanston, IL

- Master of Engineering Management candidate

Expected: Dec 2017
Aug. 2008 - May 2012

Pennsylvania State University, University Park, PA

- B.S. Mechanical Engineering with distinction
- Cumulative GPA: 3.79/4.0

WORK EXPERIENCE

Betrust, Chongqing China

General Intern

May 2016 - July 2016

- Collected startup information by attending more than 15 business plan presentation as investor representative.
- Connected Betrust and Rubicon Venture Capital by actively reaching out to and networking with the general partner of the company
- Documented 300+ Startup key information into company's database

Parking Bird, CA

Co-Founder and CEO

Jun. 2015 – Mar 2016

- Interviewed 100 potential customers to define customer needs and estimate market size
- Composed a team of one designer and two developers to develop the app
- Managed project schedule based on inputs from app developer and ensured product delivery on schedule
- Led the UI/UX (User Interface / User Experience) design and wrote 22 pages about the design prototype with Sketch
- Designed garage opener locker prototype for city apartment user
- Wrote a business proposal and gave 11 pitch presentations to investors for fundraising

Cummins Inc., IN

Senior Combustion Performance Engineer

Nov. 2014 - Jul. 2015

- Led a natural gas V16 60-liter ICE engine performance development project
- Organized weekly cross-functional problem-solving meetings that involved tests, lab operation, and control engineers
- Analyzed test data with self-made advanced Excel tools and defined combustion performance tables in the calibration
- Supervised SwRI to set up test cells and provide engine tuning strategies in San Antonio, Texas
- Managed project schedule and provided management with project updates, including time estimates and potential risks
- Published a 60-page internal technical report, which summarized engineering development work
- Created and implemented a test cell operation and engine troubleshooting coaching plan for junior test engineers

Test Engineer

Jun. 2012 - Nov. 2014

- Acted as test engineer for two natural gas V16 60-liter engine projects in a Cummins test cell
- Wrote and executed over 200 test plans, including DOE, transient, and verification tests, during the entire development
- Ensured data quality for performance analysis and was responsible for any data quality troubleshooting
- Responsible for engine failure troubleshooting and daily issue logbook recording
- Maintained the inventory for over 2000 development spare parts and globally searched for urgently needed parts

Mechanical Engineer Intern

May 2011- Aug. 2011

- Assisted a combustion performance engineer in writing testing procedure for a prototype engine test
- Involved with the fueling system design. Designed the air fuel mixer for a 60-liter natural gas engine
- Electronically logged over 500 parts related to the 60-liter development engine and reorganized the storage area

LEADERSHIP & ACTIVITIES

President and Co-Founder of Columbus Auto Rec Club

- Organized monthly social events, including kart racing, car knowledge sharing classes, and picnics

Activity Planner for Lion's Performance Car Club at Pennsylvania State University

- Organized auto cross events and weekly meetings for club members

Member of Tau Beta Pi Engineering Honor Society at Pennsylvania State University

- Volunteered in student activities, such as historical building cleaning

ADDITIONAL

- MS software (Excel, PowerPoint, Word, and Project) and engineering software (AVL Concerto, Solidworks, and Matlab)
- Race track and Auto Cross fan (2nd Place in the Indiana SCCA autocross events, intermediate group for Open Track Day)
- Hold student private pilot license with 35+ flight hours including solo flight in IN, to obtain private pilot license by 2016