

Zitao He

☎ 765-409-3976 ✉ zitaohe369@gmail.com 🌐 linkedin.com/in/zitaohe

Education

Georgia Institute of Technology

M.S. in Computer Science (Part-time, Remote), GPA 3.87/4.00

Atlanta, GA

Aug 2021 – Dec 2023

Purdue University

M.S. in Mechanical Engineering (Specialized in Thermal Science), GPA 3.91/4.00

West Lafayette, IN

Aug 2016 – May 2018

Shandong University

B.S. in Energy Engineering, GPA 87.8/100.0

Jinan, China

Sept 2012 – May 2016

Skills

Programming Languages: Java, Python, C/C++, JavaScript, SQL

Languages: English, Chinese(Mandarin)

CAE and CAD Tools: GT-SUITE, TAITherm, Matlab, COMSOL Multiphysics, ANSYS, Solidworks

Professional Experience

Gamma Technologies (Multi-Physics System Simulation Software Vendor)

Westmont, IL

Staff Application Engineer, specialized in thermal system simulation

June 2018 - Present

- **Client Pre-sale Support:** Led pre-sales projects and evaluations with potential clients, resulting in successful sales wins from renowned clients such as Rivian, Lucid Motors, Zoox, GM, Ford, and Stellantis.
- **Client Post-sale Support:** Provided remote and onsite technical support to end-users, effectively troubleshooting simulation problems and ensuring customer satisfaction. Proactively engaged with customers through regular check-ins to identify new needs. Led paid consulting projects with customers to develop and deliver complex vehicle system simulations
- **Product Management:** Drove the design, maintenance, and prioritization of software defects and new features for a comprehensive software suite, including GT-SUITE, GEM-3D, and GT-POST. Successfully designed an average of 90 bugs/features per year. Collaborated closely with the Research and Development team to drive progress and ensure the continuous improvement of the software suite
- **Software Testing:** Developed rigorous unit tests for new software features and bug fixes. Streamlined testing processes by leveraging Python scripts and in-house APIs for automation. Achieved widespread adoption of testing frameworks by multiple groups.
- **Customer Training & Marketing Event Hosting:** Conducted over 10 training sessions annually to educate and onboard new users, employing both online and onsite formats. Demonstrated strong presentation skills by hosting webinars and showcasing software capabilities in technical conferences and events with a focus on marketing.

Research Experience

Department of Mechanical Engineering, Purdue University

West Lafayette, IN

Lab Assistant, supervised by Prof. Liang Pan

May 2016 - May 2018

- Thesis: Optically-actuated spatial light modulator for Deep UV maskless lithography and imaging
- Lithium micro-battery design using micro-stereolithography(3D printing). Published in 2017

Institute of Thermal Science and Technology, Shandong University

Jinan, China

Lab Assistant, supervised by Prof. Qie Sun

Jun 2015 - May 2016

- Thesis: Thermal analysis for industrial cold storage design using phase change material. Published in 2017

Publications

1. Wang, C., **He, Z.**, Li, H., Wennerstern, R., Sun, Q. (2017). Evaluation on Performance of a Phase Change Material Based Cold Storage House. Energy Procedia, 105, 3947-3952.
2. Chen, Q., Xu, R., **He, Z.**, Zhao, K., Pan, L. (2017). Printing 3D Gel Polymer Electrolyte in Lithium-Ion Microbattery Using Stereolithography. Journal of The Electrochemical Society, 164(9), A1852-A1857.