yoon-zh

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For the full version of this resume, contact me via the email above.

Skills

Programming: C, MATLAB, Python
CAD: Inventor, Fusion
Languages: English, Chinese, ?

Projects

Adiabatic Flame Temperature Calculator   github.com/yoon-zh/flametemp
- Developed a MATLAB tool to calculate adiabatic flame temperatures for custom fuel blends and conditions, outputting reaction stoichiometry, maximum flame temperature, and detailed molar fractions
- Enhanced code robustness by refactoring input handling and validation workflows, enabling dynamic processing of liquid/gas fuels and numerical analysis for better accuracy

Chemical Element Parser   github.com/yoon-zh/chemcount
- Created a library in C to parse a string of chemical elements from the client, returning a struct containing the elements in the compound and its total count

Personal Portfolio Website   github.com/yoon-zh/yoonzh.com
- Designed and developed a personal website to serve as a portfolio to showcase my projects and skills.