

BOQIAN LIU (刘博谦)

Cell Phone: (+86) 176-2137-9964

Email: liuboqian2015@outlook.com

Github Page: <https://github.com/liuboqian>



PROFESSIONAL SKILL

Front End: **Angular**, React, **WPF**

Back End: Asp.Net Core

Program Language: **C#**, **JavaScript**, python

Chem Engineer Skill: Aspen Plus (dynamic), Aspen Hysys, DMC3, Batch APC

ADVANTAGES

Communication skills, enthusiasm in latest technology, willing to acquire domain knowledge

WORKING EXPERIENCE

- **A WPF Project** 2018 – Present
 - Using Prism MVVM architecture, Infragistics control library
 - Primary work is to draw forms, plots and convert Winform controls into WPF.
 - With animation effects
- **A Web Project** 2019 – Present
 - A project using Angular and Angular Material
 - Using ECharts to draw diagrams
 - Embedded with a small project using React with Redux
- **Plugin System** 2019 – 2019
 - A plugin system compatible with C++, python and C#
- **CAPEOPEN Basic Class Library** 2016 – 2017
 - Build a basic class library supporting CAPEOPEN standard called CasterCore, written in C#. It's essentially a COM compatible C# class library.

- Using this base library, create three concrete unit operations, a sample, a Flash and a RadFrac.

■ **Reactors** 2015 – 2016

- Similar to the 6 reactors in Aspen Plus, reactors with the most functions of Aspen Plus has been developed. Each contains an MFC UI.

■ **Process Simulation** 2017 – 2019

- Using Aspen Hysys Dynamic to simulate dynamic processes to support calculations in Advanced Process Control. Advanced Process Control is a modern controller used to optimize the total cost and stability of a chemical or petroleum plant, involving MPC, DMC and other methods in both advanced and classic control. As a part of Manufacture, it requires dynamic simulation of processes and knowledge about control theory.
- Use Aspen Plus to simulate VGO hydrotreating and VRDS hydrotreating, the data is provided by actual factory. Also use HTFS to evaluate heat exchangers, HTRI to evaluate air coolers, and ECSS to evaluate towers.

EDUCATION

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| M. Ch.E., Chemical Engineering and Technology. Qingdao University of Science & Technology | Sep.2014 – July.2017 Qingdao, Shandong |
| B. Ch.E., Chemical Engineering and Technology. Qingdao University of Science & Technology | Sep.2010 – July.2014 Qingdao, Shandong |

Career

AspenTech Shanghai LTD. Software Developer