

# MONNAN HOW

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## Summary

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Familiar with SDLC, OOD/OOP, software testing (white box/structural testing and black box/functional testing), database, data structure and algorithms and statistical modeling. Special interest in machine learning, data science and artificial intelligence related technologies.

Three years of working experience as a process engineer in a fast-paced semiconductor manufacturing company I have developed skills for communication, multi-projects managing and problem-solving.

## Technical Skills

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Proficient: Python, Excel.

Experience: SQL, Python libraries (pandas, numpy, seaborn, Scikit-learn, matplotlib), Java, C, Hadoop, Hive, R, HTML/CSS/JS, Django, Linux commands (Bash).

## Employment History

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### uPI Semiconductor Corp.

*Data Modeling Intern*

**Milpitas, CA**

*Aug 2019 – present*

- Write programs to help data processing in intermediate stages (data format changing, handle missing data) to improve engineer's productivity.

### Taiwan Semiconductor Manufacturing Company (TSMC)

*Process Engineer*

**Tainan, Taiwan**

*Oct 2013 – Oct 2016*

- Initiated and build a dashboard to monitor bottle neck recipe availability that saved 80% of a Chief Process Engineer time on recipe management.
- Solved a production line quality issue through data analysis and reduce 20% out of control rate.
- Successfully predicted process outcome base on process parameters with 80% accuracy.

## Projects

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- **Artificial Intelligence - Pacman game (in-class)**
  - Implement DFS, BFS, UCS, A\*, MinMax, alpha-beta pruning, Q-Learning (Reinforcement Learning/Machine Learning) algorithms to solve problems in game (Python code).
- **Compiler construction (in-class)**
  - Constructed a C compiler using lexer and parser such as flex, yacc/bison (C code).
- **Billing Interface Linkable Library (in-class)**
  - Build an API to query and update student records database (Java code).
  - Junit for software testing.

## Education

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### University of South Carolina

*Master of Science in Computer Science, GPA 3.7*

**Columbia, SC**

*Sep 2017 – May 2019*

### National Cheng Kung University

*Master of Science in Material Science and Engineering, GPA 3.8*

**Tainan, Taiwan**

*Sep 2010 – June 2012*