

# Haohua Li

<https://haohua-li.github.io/projects>  
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## EDUCATION

### MONASH UNIVERSITY

#### BACHELOR IN COMPUTER SCIENCE

June 2021 | Melbourne, AU

GPA: 3.2 / 4.0

WAM: 78/100

### MONASH UNIVERSITY

#### BACHELOR IN ELECTRICAL ENGINEERING

June 2021 | Melbourne, AU

GPA: 3.2 / 4.0

WAM: 78/100

## LINKS

Github:// [haohua-li](https://haohua-li)

LinkedIn:// [randoruf](#)

## COURSEWORK

### COMPUTER SCIENCE

Algorithms and Data Structures

Database

Programming Languages

Operating Systems

Unix Tools and Scripting

### ELECTRICAL ENGINEERING

Control System

Computer System

Embedded System

## SKILLS

### PROGRAMMING

Competent:

C++ • C • Python • Shell • Javascript

Matlab

Familiar:

LaTeX • HTML • CSS • Assembly • SQL

## EXPERIENCE

### FOCUS CREATIVE STUDIO | WEB DEVELOPER

Nov 2018 – Jan 2019 | Melbourne, Australia

- developed and maintained a website based on Wordpress and Bootstrap.

## RESEARCH AND PROJECT

### SIMULATION-BASED AUTONOMOUS PARKING SYSTEM | FINAL YEAR PROJECT

Feb 2021 – Jun 2021 | Melbourne, Australia

- the aim of this project is to deal with parking spot assignments in a smart parking lot.
- developed a framework used for evaluating the performance of parking slot allocation algorithms by taking account of path-planning and local avoidance.
- devised two simple algorithms for assigning parking slots based on Euclidean distance and priorities.

Visit [ECE4095 Parking System](#) for more details.

### MONASH NEUROSCIENCE OF CONSCIOUSNESS (MONOC) RESEARCH LABORATORY | INTERNSHIP

Dec 2019 – Feb 2020 | Melbourne, Australia

- implemented an API to Causal State Splitting Reconstruction(CSSR) algorithm for epsilon machine.
- the results showed that the statistical complexity may reflect the degree of consciousness of humans.

### ROBOT BUILDING COMPETITION | COURSEWORK PROJECT

Aug 2019 – Nov 2019 | Melbourne, Australia

The aim of the project is to design and construct an autonomous robot that is able to navigate itself in a 1.2m x 1.2m arena, pick up three coloured pucks, and stack them one-by-one in a given sequence inside the construction zone of the arena. It mainly involves 1) navigation/path finding; 2) colour sensing; 3) manipulation of the pucks. The knowledge involves PSoc, sensors, motors, schematics and CAD.

### OTHER PROJECTS |

Visit <https://haohua-li.github.io/projects/> for more details.

## AWARDS

- 2020 Winter Vacation Research Scholarship (tLab Monash School of Psychological Sciences)
- 2020 Summer Vacation Research Scholarship (tLab Monash School of Psychological Sciences)
- 2018 Faculty of Engineering Dean's Honours List 2017
- 2016 MCD4140 Computing for Engineers Academic Excellence Award