

YUANHAI TAN

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[iiiiiiiill.github.io](https://github.com/iiiiiiiill)

Education

Bachelor of Science in Computer Science, Lehigh University

May 2020

Overall GPA 3.57 Major GPA 3.75

Honors:

Dean's List

Spring 2020

Dean's List

Spring 2018

Dean's List

Spring 2017

Related Experience

NSF Project Research Assistant, Lehigh University

Spring 2020

Supervisor: [Liang Cheng](#)

- NSF Awarded Research: "CPS: Breakthrough: Analysis, Identification and Mitigation of Delay Performance Bottlenecks of Network Infrastructure in Cyber-Physical Systems"
- Built the simulation infrastructure using Omnet++ and the INET framework
- Created simulations such as AVB networks and TANDEM networks

Autonomous RC Car, Lehigh University

2019-Spring 2020

Supervisor: [Mooi Choo Chuah](#) , [Corey Montella](#)

- Based on visual based localization and navigation
- Enabled collaboration between multiple autonomous cars
- Constructed both software and hardware platform

Project DōKō, Senior Design Project, Lehigh University

2019

Advisor: [Mooi Choo Chuah](#) Sponsor: [OhmniLabs](#)

- Created general usage robot based on a novice telepresence platform
- Constructed robust navigation system in complex office environment
- Powered by neural-network, ROS, and other state-of-the-art systems

Game Developer, Umineko Distribution

2017-Summer 2020

- Unity 3D game with cross-platform support
- Won "the Most Fun Award" in LUApps, a school wide software competition
- Hosted on [google store](#) and downloaded by thousands across the globe

Software and Automation Engineer, Lehigh Hyperloop, Lehigh University 2017-2018

- Designed and implemented software and sensors arrays used on hyperloop pods
- One of the few teams participated in the final competition hosted by SpaceX
- Maintained the team's [website](#)

Data Engineer Intern, Najing Les Information Technology Summer 2017&Summer2018

- Big data processing with Hadoop and Spark
 - Guarded and maintained high security databases
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Teaching Experience

Lehigh University, Bethlehem, PA Autumn 2019

CSE216 Teaching Assistant, Department of Computer Science and Engineering

- Mentored student groups for semester long Android projects
- Held weekly meetings to discuss progress and set goals for teams

Lehigh University, Bethlehem, PA Spring 2018-Spring 2020

CSE109, CSE202 Teaching Assistant, Department of Computer Science and Engineering

- Assisted topics related basic and intermediate C and Linux programming
 - Graded homework and exams
 - Held weekly office hours to answer questions
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Community Service

Linux Mint

Translator, Launchpad Simplified Chinese Translators 2016 - Present

Skills

Programming Related

- Java, C, C++, Kotlin, GO, Scala, Ruby, JavaScript
- ROS
- Unity, SolidWorks, Android Studio, etc

Communication

- Professional English, Native Chinese and Elementary Japanese

Leadership

- Elected as team captain for VEX team 8176(A/B/C) for 2 years
 - Founded Umineko Distribution and participated in multiple software competitions
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Interests

Independent Softwares/ Cyberpunk games and stories/ Robots/ DIY smart home solutions