Yuanhai Tan

Combine latest technology and futuristic ideas to pursue a better tomorrow.

4 Farrington Square, Box 5635; Bethlehem PA 18015 | +1-484-456-0599 / +86-189-518-70063

edwin.richard.tan@gmail.com | iiiiiiiill.github.io

Education

- **Lehigh University**

  - *B.S. in Computer Science*, Expected Graduation: May, 2020
  - Overall GPA: 3.53
  - Major GPA: 3.75
  - Related coursework: Data Structures, Operating Systems, Internet of Things, Robotics

Skills

- **Programming Related**

  - Java, C, C++, Kotlin, GO, Scala
  - Linux Contributor (Linux Mint-Localization)
  - Experience with ROS
  - Unity, SolidWorks, Android Studio, etc

- **Communication**

  - Professional English, Native Chinese and Elementary Japanese
  - Exclusive and open personality

- **Leadership**

  - Team Captain for VEX team 8176(B/C) for 2 years
  - Founded Umineko Distribution and participated in multiple software competitions

Experience

- **Software and Automation Engineer**

  Lehigh Hyperloop, 2016 - 2018

  - Design and implement embedded systems for the Hyperloop pod.
  - Involve in overall design such as telecommunication systems and electro-magnetism systems.
  - Maintain the team's website (lehigh.edu/~inhyper/)

- **Data Engineer Intern**

  Nanjing Les Information Technology, 2017(summer) & 2018(summer)

  - Big data processing with Hadoop and Spark
  - System maintenance for high security databases
  - Flattened management system for low latency feedback

- **Game Developer**

  Umineko Distribution, 2017 - Present

    - Unity 3D game with multi-platform support
    - Won "the most fun" award in LUApps during 2017 winter semester.
    - Hundreds of downloads from different countries on [Google PLAY](#) `yww.uy/IE4yS`.

School related projects

- **Autonomous RC Car**

  Research Experience, Year 2019

    - Building the hardware and software of a autonomous car under the supervision of [Professor. Chuah](#) `yww.uy/QBw7f` and [Professor. Montella](#) `yww.uy/YDhfi`
    - Features include lane recognition and environment perception
    - Future work will include collision avoidance
    - Intended to be a scaled test platform for real world autonomous driving

- **Project Dōkō**

  Senior Design Project, Year 2019

    - Collaborate with a sponsor to design and implement software for a general usage robot
    - Responsibilities includes navigation system, facial recognition, and voice command
    - Powered by neuro-networks, ROS, and `KIZEN SYSTEM`

- **Teaching Assistant and Tutor**

  Lehigh University, Department of Computer Science and Engineering, Since Fall 2018

    - Assist professors in teaching and grading in two core courses
    - Answer questions and concerns and hold weekly office hours

Interests

- Independent software
- Cyberpunk stories and games
- RC drones and ships. Won second place in a national RC competition in China several years ago(F3-V). Three champions in a row in provincial championship.
- DIY smart home solutions
- Robotics