# Quan Meng

**Last update: Oct 14, 2021**


## Contact Information

Address: Pudong, Shanghai, China
Wechat: nenhabkks
Tel: +86 19821254220
Homepage: https://mq66.github.io
E-mail: mengquan@shanghaitech.edu.cn


## Academic History

**ShanghaiTech University** Fall 2019 - Spring 2021 (expected)

- M.S. in Computer Science and Engineering
- Advisor: Prof. Jingyi Yu.

**Shandong University** Fall 2015 - Spring 2019

- B.S. in Automatic Control.
- Advisor: Prof. Guoliang Liu.

## Publications

1. **Quan Meng**, Anpei Chen, Haimin Luo, Minye Wu, Hao Su, Lan Xu, Xuming He, and Jingyi Yu
   GNeRF: GAN-Based Neural Radiance Field without Posed Camera
   *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV), 2021*
   **Oral Presentation: 3.4%**
   We introduce GNeRF, a method that can estimate camera poses and neural radiance fields jointly when the cameras are initialized at random poses in complex scenarios (outside-in scenes, even with less texture or intense noise ). We achieve this by marrying Generative Adversarial Networks (GAN) with Neural Radiance Field.

2. **Quan Meng**, Jiakai Zhang, Qiang Hu, Xuming He, and Jingyi Yu
   LGNN: A Context-Aware Line Segment Detector
   *Proceedings of the 28th ACM International Conference on Multimedia (ACM MM), 2020*
   **Poster: 27.9%**
   Existing approaches require a computationally expensive verification or postprocessing step. Our LGNN employs a deep convolutional neural network (DCNN) for proposing line segments directly, with a graph neural network (GNN) module for reasoning their connectivities. LGNN achieves comparable performance and enables time-sensitive 3D applications.

## Honors and Awards

- ***First prices*** in World Robot Contest Fighting Robot Competition. 2017
- ***First prices (Shan Dong)*** in National Undergraduate Electronics Design Contest 2017, 2018

## Technical Skills

- *Softwares*: Linux, C/C++, Python, Java, Pytorch, Opencv, Latex, Matlab, Qt.
- *Hardwares*: STM32, STC, PCB.