**Xu Duoteng**

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# **Shenzhen, Guangdong, China 518000**

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## Education

09/2019-06/2023 **ShenZhen University, China**

**Bachelor of Engineering** (Automation)

* GPA 3.76/4.5; GPA for major subjects 3.85/4.5.
* Ranking top 10% of the cohort.
* Obtained broad knowledge about electrical engineering, microelectronics, control engineering etc.
* Minoring in the "AI+" micro-specialties founded by Shenzhen University and Tencent Cloud.

**Internship and Working Experience**

06/2014-08/2014 **Hardware development department**

Shenzhen Key Laboratory of Intelligent Sensing and Computing for wearable Things, Shenzhen , China

* Mainly responsible for hardware principle exploration and software programming design of wearable devices.
* Research on deep learning algorithms for ubiquitous sensory computing based on human data signals collected by wearable devices.
* Involved in publishing two Chinese invention patents and one EI Compendex index conference paper.

**Professional project Experience**

**Emotion recognition system based on multimodal wearable devices**

* Hardware programming of wearable devices based on ESP32 and STM32 processor to realize signal acquisition of IMU, blood oxygen, heart rate, skin electricity and other sensors.
* Modeling based on physiological data signals, using deep learning networks to explore the intrinsic physiological data signals with different emotional distinctions.

**Garbage sorting cart based on NCNN inference framework and Nanodet network**

* Responsible for the hardware programming of the camera to achieve real-time c of video streaming data.
* Training Nanodet target recognition network based on the different garbage images collected.
* Deploying Nanodet target recognition network to Android mobile terminals based on NCNN forward inference framework.

**Extracurricular Activities and Social Work**

09/2020-09/2021 **Autoleaders club, Shenzhen University**

* As the deputy head of “control group”, participated in in laboratory management and teaching.
* Mainly responsible for teaching and instructing skills related to control engineering, such as C programming, 51 micro-controller.
* Provide guidance and assistance for first-year students to participate in the competition.

05/2020-05/2022 **Volunteer**

* Worked as a volunteer of Yuehai Street Library, responsible for organizing and checking out books.
* Worked as a volunteer for detection of Covid-19 virus infection at Shenzhen University.

**Awardsand Honors**

09/2021-05/2022 Mathematical Contest in Modeling Finalist

05/2020-08/2021 National Student Optoelectronic Design Competition District Second Prize

09/2020-03/2021 National Collegiate Mathematical Modeling Competition Provincial Second Prize

09/2020-09/2021 Shenzhen University Learning and Double Creation Star Second Prize

**Skills**

* Deep learning, Embedded Micro-controller Programming, Data Analysis and Mathematical Modeling

**Language**

12/2021 College English Test Level 6 (CET6) Ministry of Education

06/2020 College English Test Level 4 (CET4) Ministry of Education