SUN GUIYU

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Beijing
https://github.com/BIOSmode
Birthdate: 1996-06 | Male

EDUCATION

Beihang University Sep 2018 - Jan 2021

Information & Communication Engineering Master of Beijing

- GPA: 3.25 / 4.0 (Top 50%)
- Honors/Awards: Second-Class Scholarship (2018-2020);
- Relevant Coursework: Detection, Estimation and Modulation; Matrix Theory; Satellite Navigation; Integrated Navigation;

Beihang University Sep 2014 - Jun 2018

Electronic & Information Engineering Bachelor of Bejing

- GPA: 3.0 / 4.0
- Honors/Awards: The third prize of National Undergraduate Electronic Design Competition(2017); Academic Scholarship(2017);
- Relevant Coursework: Mathematical Analysis; Advanced Algebra; Synopsis; Signals and Systems;

Beihang University Sep 2016 - Jun 2018

Economics Second Degree of Humanities and Social Sciences college Beijing

RESEARCH EXPERIENCE

Space-based Opportunistic Signal Location Software Dec 2018 - Present

Graduate

[Research on Space-based Opportunistic Signal Location]

- Compelted space-based opportunistic signal localization algorithm independently (C/Matlab);
- Completed the several progamming of automatic steps, such as point classification, satellite number identification (C);
- Developed the interface display based on QT platform for the software, the interface program has been uploaded to open source on github (C++)(https://github.com/BIOSmode/PositionBasedonCommunicationSatellite);
- The research results ***Research on Time to First Fix of a Space-based Positioning Technology based on IRIDIUM Signals of Opportunity*** were received by the 11th China Satellite Navigation Conference.
- The paper ***Research on the Application of Iridium/INS Combined Positioning Technology in Ships*** has published in *Navigation Positioning and Timing*.

Remote Amplitude-frequency Characteristic Test Device Aug 2017 - Aug 2017

[Design and Development of MCU Drogram]

- Cooperated with two teammates to participate in the 11th National Undergraduate Electronic Design Competition, and designed a device that meets the requirements of the problem within four days and three nights;
- Completed the display program based on the MCU relatively independently, gained the approval of the judges and won the third prize finally.

Freescale Smart Car Competition Jun 2017 - Jul 2018

[Design of automatic wayfinding vehicle]

- Finished the embedded program on Freescale (now NXP) platform (C);
- Learned the basic PIT algorithm.

Skills & Others

- **Skills:** C/C++ (Proficient)(QT/VS), Matlab (Proficient), Python (Basic, Self-studying), Word, PowerPoint (Proficient);
- **Languages:** English (skilled);
- **Interests:** Basketball (Center) , LEGO;
- **Experiences:** Student Union (Planning Group), Editor in IT168 Web, SungKyunKwan University Winter Vacation Project;