**Yifu Feng**

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**Summary**

Third-year Telecommunications Engineering and Management student at BUPT. Hands-on in embedded systems (STM32 HAL/FreeRTOS), motor control, encoder/IMU/LiDAR integration, and OpenCV/YOLO. Owns hardware–firmware bring-up and testing.

**Education**

B.Eng., Telecommunications Engineering and Management — Beijing University of Posts and Telecommunications (BUPT)

Expected: <YYYY/MM>

Relevant coursework: Embedded Systems; Digital/Analog Circuit Design; Signal Processing; Computer Vision.

**Technical Skills**

• Embedded/Firmware: C/C++ (STM32 HAL/FreeRTOS), UART/SPI/I2C, PWM, DMA, interrupts, sensor drivers

• Robotics/Control: Motor drivers, PID control, encoder feedback, IMU/LiDAR integration

• Computer Vision: OpenCV, YOLO

**Competitions & Team Experience**

Electronic Design Competition — Team Member (Hardware & Firmware)

• STM32 control stack: encoder ISR, PID tuning, UART DMA LiDAR streaming

• IMU + odometry fusion for heading stability

• Test plans and demo; fixed motor asymmetry issues

Design & Build Group — Hardware Leader

• Owned hardware: requirements, components, bring-up and validation

• Cross-team integration;