Jakub Bubak

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SUMMARY

Motivated and hands-on final-year Electronics and Telecommunications student with experience in embedded systems, real-time software, and aerospace applications. Proven leadership experience in student space technology teams, with a focus on system integration, technical coordination, and interdisciplinary collaboration. Passionate about space systems, onboard software development, and hardware-software co-design.

EDUCATION

BE - Electronics and Telecommunications | 10.2022 - present

AGH University of Krakow

BE - Electronics and Communications Engineering | 09.2024 - 12.2024

Aalto University (Exchange Semester)

EXPERIENCE

Valeo - Electronics System Engineer | 02.2025 - 05.2025
- Developing a universal test system for automotive lighting modules.

MyLed - Software Developer | 07.2022 - 09.2022
- Integrated computer vision systems (C/C++, Python, React.js).
- Participated in full-stack prototyping of intelligent display solutions.

VOLUNTEER EXPERIENCE

AGH Space Systems | 07.2023 - present

Rover Team Leader | Board Member | Electronics Engineer

Member of the student space technologies association.
- Leading a 30+ member team in designing and building the Kalman Planetary Rover for international competitions.
- Coordinating hardware, software, and mechanical subsystems to ensure successful system integration.
- Managing budget planning, grant reporting, and university collaboration.
- Supervising technical documentation and ensuring compliance with space competition standards.
- Developing key electronic modules and embedded firmware for rover control and telemetry.

SatLab AGH | 02.2023 - 06.2024

Board Member | OBSW Leader

Member of a student association creating a satellite to observe the Earth from the LEO orbit.
- Led development of onboard flight software for the satellite mission.
- Managed interdisciplinary software development and task delegation.
- Represented team progress in technical reviews and outreach presentations.

LookMumFlyingCan | 09.2020 - 06.2021

Member of CanSat 2020/2021 competition team.
- Designed a custom navigation system for a CanSat-based atmospheric mission.
- Gained experience in mission planning, telemetry, and small satellite design constraints.

Hackerspace Kraków | 02.2020 - present

Member of an organization associating people with interests in STEM.
- Active member involved in prototyping, knowledge sharing, and electronics workshops.
- Worked on several open-source hardware and STEM education initiatives.

SKILLS

Programming: C, C++, Python, Julia, MATLAB
Embedded systems: RTOS, STM32, ESP32, nRF52
Aerospace Systems: OBSW development, system integration, telemetry
Tools & Equipment: oscilloscope, logic analyzer, spectrum analyzer, KiCad, soldering
Radio & Communications: licensed ham radio operator (SQ9BBK), experience with basic RF systems
Soft Skills: leadership, project management, technical writing, grant administration

LANGUAGES

Polish - native

English - advanced (CAE certified)

German - intermediate

CERTIFCATES

Certificate in Advanced English
University of Cambridge

ERC Space & Robotics Industry Standard
European Rover Challenge

Licensed Amateur Radio Operator
Office of Electronic Communications