

Hana Sestakova

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EDUCATION

New York University Tandon School of Engineering, Brooklyn, NY

May 2028 (Expected)

Bachelor of Science, Electrical Engineering (3.7 GPA)

- Relevant Coursework: Engineering Design, Signals and Systems, Data Structures, Differential Equations, Electromagnetics, Digital Logic/State Design
- Global Leaders and Scholars in STEM (GLASS) Honors Program
- Study Abroad in **City University of Hong Kong** (Jan. - May 2026)

QSI Bratislava, Bratislava, SK

June 2024

High School Diploma (4.0 GPA)

EXPERIENCE

Head of Programming, **BallPall**, Brooklyn, NY

Jan. - June 2025

- Led the firmware architecture and systems integration for an autonomous robotic collector using Raspberry Pi and Python to process sensor data.
- Wrote 100% of the codebase for motor control and navigation logic and designed the chassis in Fusion 360, while coordinating with a mechanical engineer on hardware integration.
- Achieved 2nd place in the NYU Tandon Nick Russo Award by delivering a functional prototype with a 80% object retrieval success rate during trials.

Office Assistant, **Undergraduate Academics NYU Tandon**, Brooklyn, NY

Jan. - Dec. 2025

- Serve as the administrative hub for the GLASS Honors Program and Tandon Global, supporting department logistics and student relations.
- Assisted in managing 3 cohorts of 60 honors students total, handling inquiries and resource allocation, while planning and executing approximately 2 academic and social events per month.
- Supported faculty and student programming by organizing professional emails and day-to-day operations.

PROJECTS

Project Member, **NYU Vertically Integrated Project Wearable Art and Design**

Sept. - Dec. 2025

- Developing interactive fashion technology that bridges engineering and aesthetics, focusing on responsive electronic circuits.
- Collaborated within a 5-person team to design custom PCBs in AutoCAD; performed high-precision manual soldering on components to integrate microcontrollers and LED arrays.
- Successfully prototyped a responsive garment that reacts to environmental stimuli, validated through rigorous circuit testing to ensure safety and durability standards were met.

Project Member, **NYU Vertically Integrated Project Offshore Wind Platform Research**

Sept. - Dec. 2025

- Helped with research and design for sustainable floating offshore wind energy systems through technical analysis.
- Worked with two researchers to simulate aerodynamic loads in OpenFAST and built a scaled wind turbine model in CAD to check structural ideas.
- Explored different platform setups for deep-water stability and helped find options that lowered simulated structural stress.

SKILLS

Technical:

- **Embedded Programming & Hardware Systems:** Python, Matlab, Verilog, Arduino (Microcontroller Logic), Raspberry Pi (System Prototyping)
- **Electronics Design Software:** AutoCAD (Fusion 360)
- **Testing & Prototyping:** Oscilloscopes, Precision Soldering, Circuit Testing, Troubleshooting, 3D Printing (Rapid Prototyping)

Language:

- English (fluent), Slovak (fluent)