# ELIN PERNÅ – RESUME

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## PROFILE

Analytical engineering physics student with hands-on experience in semiconductor devices, autonomous systems and programming. Passionate about applying cutting–edge physics and engineering together to create meaningful technology that pushes what is possible.

## EDUCATION

**Master of Science in Engineering Physics** — 2024 – Ongoing
Uppsala University — Uppsala, Sweden
- Five-year integrated engineering program combining advanced physics, mathematics and engineering, with academic interests towards embedded systems and applied physics.
- Elective studies in PCB design, CAD and fabrication techniques, extending beyond the core curriculum.

**Platoon commander in artillery meteorology** — 2023 – 2024
Swedish Armed Forces, Artillery Regiment A9 — Skövde, Sweden
- Led a team conducting artillery targeting calculations using geodetic data collected via high-altitude balloons.

## WORK EXPERIENCE

**Research Assistant in Semiconductor Devices** — 2025 – Ongoing
Division of Solid-State Electronics, Uppsala University — Uppsala, Sweden
- Performed IV and response curve measurements on a silicon nanowire FET gas sensor using a semiconductor parameter analyzer and probe-station setup. Conducted device characterization including threshold-voltage extraction and hysteresis behaviour, while assisting in cleanroom fabrication processes.

**Union Representative & Coordinator** — 2025 – Ongoing
Engineers of Sweden — Uppsala, Sweden
- Responsible for the organization in Uppsala, leading a team to promote the union at the university.

**Teaching Assistant in introduction to computers** — Autumn 2025
Department of Information Technology, Uppsala University — Uppsala, Sweden
- Assisted engineering students in Python and version control using Git, improving code management and workflow understanding.

**Data Analyst Intern** — Summer 2025
Department for Autonomous Solutions, Scania — Södertälje, Sweden
- Implemented validation methods in Databricks for post-perception data on autonomous trucks. Developed and applied criticality metrics in Applied Intuition to evaluate vehicle behavior and performance.

## HONORS & AWARDS

**Top Performance Award – Artillery Regiment A9** — 2024
For excellence in leadership and discipline.

**Mathematics Valedictorian – Europaskolan Strängnäs** — 2023
For exceptional mathematical precision and advanced insight.

**Finalist & People's Choice Award – Swedish Championship in Research** — 2023
For an experimental project investigating high–energy particle interactions that form aurora.

**Mensa International** — 2022
Member with IQ > 135.

## SKILLS

**Languages:** Swedish (native), English (fluent).
**Technical:** Python, C++, MATLAB, HTML, CSS