

Shannon Aurelia Widjaja

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Summary

Electrical Engineering student in the International Undergraduate Program (KKI) at Universitas Indonesia with hands-on experience in SQL-based database management, machine learning (Matlab & Octave), and front-end web development. Effective communicator with international academic exposure, known for clear articulation of complex ideas, team leadership, and independent initiative. Motivated, detail-oriented, and committed to continuous personal and professional growth.

Education

University of Indonesia, Depok

August 2024 - present

International Undergraduate Program (KKI) – current GPA 3.73
Bachelor of Engineering, majoring in Electrical Engineering

Sekolah Bukit Sion, West Jakarta

August 2017 - May 2024

Majors in Biology, Chemistry, Physics, ICT, and Mechanics, with minors in Chinese, German, and Japanese.
Grade: 92.1/100

Experience

Pertamina Maintenance and Construction

July 2026 - present

Cost Engineer Intern

- Created a forecasting engine and web dashboard.
- Created a digital database for all price data ranging 2020-2026.

High Voltage and Electrical Instruments Laboratory, University of Indonesia (LTITPL UI)

July 2026-present

Laboratory assistant

- Provided teaching modules for electric circuits, and instrumentation and measurement, in English and Chinese. Prepared for future teaching modules, including Isolation of Gases, Liquids, Solids.

Linear Algebra Professor Assistant, University of Indonesia

January 2026-July 2026

- Graded 1302 homework and classwork papers, and 844 quizzes.

- Provided extra classes regularly for students.
- Became proctor for quizzes, midterm and final exams.

Private Tutor

October 2024-present

- Taught the following to over 120+ electrical engineering students: Fundamentals of Digital Systems, Linear Algebra, Calculus I-III, Physics Electricity, Electric Circuits I-II, Advanced Mathematics 1 & 2, Vector Analysis and Complex Variable, Control Engineering, Electrical Power Engineering, Fundamentals of Data Analytics, Numerical Computation

UI Women in Business

Knowledge Initiatives Associate

- Person-in-charge of the *Ladies Round Table* event, reached out and secured sponsors.
- Content writer for UI Women in Business's Medium, specifically about gender issues for women in the workplace and women in STEM.

Tèchtonic 2.0, IEEE SBUI 2025

April 2025 - December 2025

Project Officer

- Oversaw the end-to-end planning of IEEE SBUI's innovation and technology grand event, held at a national scale with seminars, competitions, and workshops.
- Led a team of 40+ committee members across 8 divisions, ensuring coordination, timely progress, and smooth execution throughout the event lifecycle.
- Organized regular meetings, delegated responsibilities, and facilitated inter-division communication to maintain alignment and resolve operational issues.
- Took the lead in building external collaborations, approaching potential sponsors and academic partners to support the event.
- Worked closely with the vice project officer and division heads to monitor timelines, solve logistical challenges, and adapt plans as needed.

Institute of Electrical and Electronics Engineer (IEEE)

February 2025 - December 2025

Student Branch Universitas Indonesia 2025, Depok

Staff of Workshop and Competition

- Assisted in drafting the Terms of Reference (TOR) for IEEEEnhance 1.0 speakers and created content sheets for the first workshop in WnC IEEE SBUI 2025.

Student Executive Board (BEM) FTUI, Depok

February 2025 - December 2025

Staff of Academics and Professionalism

- Helped create the midterm (UTS) dictation for core engineering courses.
- Taught and produced a video tutorial on Linear Algebra for BEM FTUI's YouTube channel.

(PSB) Program Internasional Ganjil 2025, Depok

January 2025 - February 2025

Staff of Finance

- Managing PSB PI Ganjil 2025 merchandise sales, assisting in fundraising for event needs, and supporting financial recording and reporting for activities.

Freshmen Fair 2025 FTUI, Depok

January 2025 - April 2025

General Secretary II

- Drafted the Freshmen Fair 2025 event proposal, room permits, and SOPs.

KMK Teknik UI, Depok

January 2025 - December 2025

Vice Head of Liturgy

- Coordinated a choir team for the weekly church service in KMK Choir.
- Coordinated the monthly Doa Bersama activity (Pray Together).

OJT (on-job training) KMK Teknik UI, Depok

November 2024 - December 2024

Liturgy Division Intern

- Served as MC for the KMK Dengar Pendapat (Karpet), coordinated the KMK Teknik Pelayanan (Kapel) work program, prepared content for Saat Teduh (SaTe).

BEM Visit 2024: Synergy, Depok

November 2024

Finance Corridor Intern

- Created a promotional video for ENTERNS UI 2024 x Wondr by BNI: International Business Case Competition as part of the Finance Corridor division, and helped in setting up the Finance Corridor booth at BEM Exhibition.

Natal (Christmas) KMK Teknik UI 2024, Depok

November 2024 - January 2024

Vice Project Officer (VPO)

- Coordinated all committees for the KMK Teknik UI Natal (Christmas) 2024 event.
- Supervised the entire event series and provided direction from planning, execution, to evaluation and report preparation (LPJ).
- Assigned Person-in-Charge (PJ) and Deputy (WaPJ) for 7 divisions: General Secretary and Treasurer, Event, HPD, Creative, Operations, and Funding.
- Oversaw event equipment preparation, attended meetings of each division, and made joint decisions with the project officer before, during, and after the event, including rehearsals and event day.
- Created the event's LinkedIn page and prepared certificates of appreciation for all committee members.

Innovare UI, Depok

July 2024 - November 2024

Staff of Design Production

- Designed feeds for Innovare UI and Bizfest pages, created posters and banners for Innovare UI event promotions, and illustrated various graphic elements using Figma software.

CareerTalk UI, Depok

July 2024 - November 2024

Staff of Jobfest

- Reached out to over 100 companies regarding the Jobfest CareerTalk UI event via email, WhatsApp, company websites, and LinkedIn; and collected potential sponsorship leads and participated in meetings with companies.
- Acted as liaison officer (LO) for companies during Jobfest, ensuring their needs were met, specifically for Ruangguru (Skill Academy).

Junior Innovator's Club, Bukit Sion High School

February 2023 - May 2024

Founder & Head

- Created a tech-related club and coordinated a team of tech-interested high school students.
- Organized electronics and programming study programs at school, focusing on machine learning and database courses.
- Registered all club members in various tech competitions.
- Developed website and app projects for the school library [BuksiReads].
- Built a student attendance tracking system for junior and senior high school.

Youth In STEM (YIS), Jakarta

July 2020 - August 2021

Content Creator

- Conducted research on various STEM topics, wrote content for newsletters, feeds, and monthly issues of Youth In STEM, and reviewed draft content as an editor.

Aspiring Students Indonesia (ASI), Jakarta

July 2020 - August 2021

IT Head Executive

- Built the official website of Aspiring Students Indonesia and the ASI Discord server.
- Collaborated with IT team members at ASI.

Student Council (OSIS), Bukit Sion High School

July 2018 - June 2020

Head of Religion department

- Coordinated weekly assembly sessions for the service team, proposed Thanksgiving and Christmas events, and promoted the Bible study program.

Achievements

1st Runner Up – ENTERNS UI: Business Innovation Competition,
University of Indonesia (2025)

1st Place – I2-Tech Olympiad: IoT & Data Analytics Challenge,
Calvin Institute of Technology (2023)

1st Place – Robotics Race: STEAM Fair,
Bukit Sion High School (2023)

1st Place – Debate Competition: Intraschool Cup,
Bukit Sion High School (2022)

2nd Place – Stock Trading Competition: 8Ternity,
BPK Penabur International (2022)

2nd Runner Up – Business Knowledge Competition: Econvention,
Prasetiya Mulya University – S1 Business (2023)

Skills

Programming Languages:

Matlab, Octave, SQL, Python, CSS, JavaScript, Java, Kotlin

Languages:

Fluent in English and Indonesian | Conversational in Chinese, German, Japanese

Certifications:

IELTS Overall Band Score: 8.0

IGCSE A* in: Additional Maths 0606, Physics 0625, ICT 0417, English 0500, Extended Maths 0580

AS & A levels: Physics, Chemistry, Biology