

# ADITYA CAKTI CHANDRASA

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## Education

### Universitas Padjadjaran

Bachelor of Engineering – Electrical Engineering. **GPA: 3.54 / 4.00**

Relevant Coursework: Electrical Circuit Analysis, Microcontroller Systems, Digital Logic Design, Control Systems, Electromagnetic Fields.

Sumedang, Indonesia  
Expected Graduation: 2028

## Experience

### Programming Practicum II Laboratory Assistant

#### Universitas Padjadjaran

Sumedang, Indonesia  
Mar 2026 – Present

- Instruct and evaluate undergraduate students in advanced programming methodologies (Python).
- Ensure rigorous comprehension of core logic, algorithms, and efficient code structuring.

### Futura (National Robotics & Seminar Event)

#### Vice Project Officer

Sumedang, Indonesia  
Mar 2025 – Nov 2025

- Directed the strategic execution of 3 major divisions: National Seminar, Robotics Competition, and Health, Safety, & Environment (K3L).
- Scaled robotics competition participation by 60% (from 33 to 53 teams), successfully managing 150+ participants on the field.
- Pioneered event expansion by launching 2 new competition categories and secured a high-profile influencer guest star, driving record engagement.

### PKMT Goes to School (PGS)

#### Project Officer

Tasikmalaya, Indonesia  
Nov 2024 – Feb 2025

- Revived the discontinued flagship event, orchestrating a massive roadshow across 25 schools and attracting 153 participants (exceeding initial target by 53%).
- Secured IDR 10 Million in total sponsorships within just 3 weeks, significantly accelerating a typical 3-month fundraising timeline.
- Managed complex logistics, financial planning, and cross-team coordination to ensure seamless execution under tight deadlines.

## Projects & Research

### Automated Monoester Production Machine (PKM-KC)

Mar 2026

- Formulated the hardware logic and problem-statement blueprint for an automated chemical production machine targeted for national grant funding.

### Hardware Logic & Robotics Prototyping

Aug 2024 – Aug 2025

- Transporter Robot (ESP32): Built and programmed a wireless transporter robot prototype focusing on hardware-software integration.
- Real-Time Color Detection System: Integrated Arduino with TCS230 sensors to process and execute real-time color sorting logic.

## Leadership and Activities

### Himpunan Mahasiswa Teknik Elektro (HMTE) Unpad

#### Head of Communication & Information Division

Sumedang, Indonesia  
Jan 2026 – Present

- Direct the overall strategy of External Relations and Media & Information departments.
- Led a strategic shift in media publication, transitioning to narrative-driven copywriting to enhance message clarity.
- Act as Project Manager for the 10th Anniversary, leading end-to-end event conceptualization.

## Skills & Languages

**Technical:** C/C++ & Python Programming, Arduino IDE, ESP32 Implementation, NI Multisim, Canva, Figma.

**Language:** English (C2 Proficient - EF SET: 79/100 | TOEFL ITP: 543), Indonesian (Native).