

Arkan Fadhil Kautsar

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EDUCATION

University of Pennsylvania, School of Engineering & Applied Science – Philadelphia, PA **May 2028**
Bachelor of Science in Engineering in Systems Science and Engineering Minor: Computer Science Cumulative GPA: 3.82/4.00

TECHNICAL SKILLS

Python, Java, MySQL, C, OCaml, Node.js, React.js, Electron.js, HTML, CSS, JavaScript, SEO, LaTeX, Arduino, Blynk, SOLIDWORKS

RELEVANT COURSEWORK

Computer Science: Software Engineering and Design, Programming Languages & Techniques

Electrical Engineering: Electrical Circuits & Systems, Electromagnetics

Math: Multivariable Calculus, Vector Calculus, Differential Equations

Business: Microeconomics I, Macroeconomics I, Managerial Economics

EMPLOYMENT EXPERIENCE

Endee Communications | Digital Strategist Intern | Jakarta, Indonesia **December 2024 – Present**

- Consulted for an electronics company (Rp50B monthly sales revenue) with a focus on social media growth and engagement, identifying competitive gaps and strategic opportunities to increase brand presence
- Enhanced brand performance on website and social media (Instagram, Facebook, TikTok) through data analysis and strategies, achieving 46.7% follower growth and optimizing ROI with clear benchmarks and content ideas

MNC Media | Marketing Communications Intern | Jakarta, Indonesia **June 2023 – July 2023**

- Collaborated with a team of 4 in the Off-Air Activation Division to conceptualize and develop the pitch deck for 3 major client's activation and self-made off-air events, accumulating 70k visitors
- Briefed concepts and logistical details to event organizers, ensuring seamless execution of large-scale events, including a concert featuring international artists from the US and South Korea

PROJECTS

OptiPrints | Electrical Circuits & Systems Class Project | Philadelphia, PA **October 2024 – December 2024**

- Collaborated in a team of 3 to develop an AI-powered software to optimize laser cutting by integrating QR code tracking, material usage analytics, and efficient layout algorithms, reducing waste and streamlining users' laser cutting experience
- Utilized Electron.js, Node.js, JavaScript, MySQL, Python, Roboflow, and HTML/CSS in full stack development
- Designed the layout and position selection algorithm and print preview display

Beamed-Up Humans | CERN Research Proposal Competition | Geneva, Switzerland **March 2024 – June 2024**

- Shortlisted top 5 internationally for a research proposal titled *Graphite's Efficacy in Shielding Proton and Electron Particle Beam*, collaborating with 7 other team members and a mentor from Universitas Indonesia
- Simulated beam energy absorption on graphite and other materials through theoretical physics calculations using Python

LEADERSHIP & VOLUNTEER EXPERIENCE

Nuraga Origami | Co-Founder and Head Executive | Greater Jakarta, Indonesia **December 2022 – November 2024**

- Selected as the top 3 Best Educational Social Project at Gelar Karya BIM 2023
- Organized 127 free college counseling and essay guidance meetings and an offline talent showcase for 66 orphanage kids

Perhimpunan Pelajar Sains Nasional | President | Indonesia **March 2024 – June 2024**

- Elected by 105 fellow members as president to lead initiatives in raising Indonesia's science literacy level
- Collaborated with the Indonesian Ministry of Education to organize the Indonesian National Science Olympiad, registering 1,245 participants from 39 states, and broke the record for an online science olympiad training with 2,105 participants

HONORS & ACTIVITIES

Penn Indonesian Students Association (Penncasila) **December 2024 - Present**

- Elected as President by members to lead initiatives in fostering a strong sense of community amongst Indonesians at UPenn

Benjamin Franklin Scholars (BFS) Program Awardee **March 2024**

- Selected among top 5% of incoming UPenn students for excellence in liberal arts, sciences, and global impact

Beasiswa Indonesia Maju Scholarship Awardee **December 2022 - Present**

- Full Ride Scholarship from the Ministry of Education, Culture, Research, and Technology for undergraduate studies at UPenn