

# Erita Cicilia Febrianti, S.Tr.T., M.Tr.Kom

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## Education

<b>Politeknik Elektronika Negeri Surabaya</b> , Master of Informatics and Computer Engineering	August 2022 – September 2024
<ul style="list-style-type: none"><li>• GPA: 3.94/4.0 (Cumlaude) (Transcript)</li><li>• <b>Thesis</b> Data Sensing, Machine Learning, and Network Security</li></ul>	
<b>Politeknik Elektronika Negeri Surabaya</b> , Bachelor of Telecommunication Engineering	February 2021 – February 2022
<ul style="list-style-type: none"><li>• GPA: 3.66/4.0 (Transcript)</li><li>• <b>Final Project</b> Data Sensing and Machine Learning</li></ul>	
<b>Politeknik Elektronika Negeri Surabaya</b> , Associate Degree of Telecommunication Engineering	August 2017 – September 2020
<ul style="list-style-type: none"><li>• GPA: 3.27/4.0 (Transcript)</li><li>• <b>Final Project</b> Smart Antenna and Propagation</li></ul>	

## Internship and Work Experience

<b>AWS Back-End Academy</b> , Indonesia	Oct 2025 – Now
<ul style="list-style-type: none"><li>• Participating in a full-time training program by Amazon Web Services (AWS) focused on Back-End Development in AWS.</li></ul>	
<b>AWS re/Start Trainee   Batch 13</b> , Indonesia	Oct 2025 – Now
<ul style="list-style-type: none"><li>• Participating in a full-time training program by Amazon Web Services (AWS) focused on cloud computing, Linux, Python, and networking. Developing skills for entry-level cloud roles such as Cloud Support Associate and Junior Cloud Engineer.</li></ul>	
<b>Timedoor Academy</b> , Indonesia	Oct 2025 – Now
Teach coding to 30 students aged 5–15.	
<ul style="list-style-type: none"><li>• For ages 5–10, introduce game development (Scratch, Kodu, Construct) and robotics (Cue, Dash, Micro:bit) while teaching core concepts such as loops, conditionals, events, algorithms, and control flows.</li><li>• For ages 15, teach Python programming, including functions, conditionals, basic algorithms</li></ul>	
<b>Orang Siber Indonesia</b> , Indonesia	Sep 2025 – Now
<ul style="list-style-type: none"><li>• Organize educational content and study space about cybersecurity</li><li>• Hold educational activities at least 1 time per month</li></ul>	
<b>Programming Tutor</b> , Politeknik Elektronika Negeri Surabaya, Indonesia	June 2025 – Sep 2025
<ul style="list-style-type: none"><li>• Providing learning support for Bachelor's and Doctoral students in Network Security, Machine Learning, and Programming, with a focus on Python, Java, and Kotlin.</li></ul>	
<b>Researcher</b> , Center for Research and Innovation on Advanced Transportation Electrification (CReATE) Politeknik Elektronika Negeri Surabaya, Indonesia	June 2024 – Sep 2024
<ul style="list-style-type: none"><li>• Researching hypervisor technology on heterogeneous multi-processor for the vehicle operating system (OS).</li><li>• Make a protect protocol using pairing based cryptography to protect system in electric vehicle.</li></ul>	
<b>Software Team IFINGER20</b> , Institut Teknologi Sepuluh Nopember (ITS), Indonesia	April 2022 – April 2023
<ul style="list-style-type: none"><li>• iFinger is a non-invasive blood sugar detection device using PPG signals. Developing applications from backend to frontend using Android Studio, configuring servers, and processing daily data on blood sugar, cholesterol, etc., for hospital patients.</li></ul>	

**Hardware Team INOSEC19**, Institut Teknologi Sepuluh Nopember (ITS), Indonesia April 2021 – April 2022

- INOSEC19 is a Covid-19 detection device using the smell of human sweat. Conducting quality control on sensors and components used for the manufacture of the INOSEC19 device, processing daily data, and assembling the INOSEC-19 device.

**Workshop Sintelis Division**, PT. Kereta Api Indonesia DAOP 8 Gubeng Surabaya July 2019 – Oct 2019

- Performing maintenance on communication devices
- Repairing fiber optic networks
- Developing a project for designing a prototype early warning system at unattended railway crossings

## Publications

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**Human Activity Recognition for Elderly People Using Pseudonym-Based Conditional Privacy-Preservation Authentication** Scopus Q2 International Journal of Intelligent Engineering and Systems 2024

*Erita Cicilia Febrianti*, Amang Sudarsono, Tri Budi Santoso  
10.22266/ijies2024.0630.03

**Human Activity Recognition for Elderly Care Using Light Gradient Boosting Machine (LGBM) Algorithm in Mobile Crowd Sensing Application** Scopus Q2 International Journal of Intelligent Engineering and Systems 2024

*Erita Cicilia Febrianti*, Amang Sudarsono, Tri Budi Santoso  
10.22266/ijies2024.0831.17

**Implementation of Scrum in the manufacture of non-invasive blood sugar detection devices using PPG signals** SINTA 4 International Journal of Applied Sciences and Smart Technologies 2024

Rafly Arief Kanza, *Erita Cicilia Febrianti*, Izza Nur Afifah, Rifqi Affan, Arna Fariza, Hestiasari Rante  
10.24071/ijasst.v6i1.7719

**Mobile Crowd Sensing with Secure Coin Rewarding in Human Activity Recognition for Elderly People System** International Conference 2024 IEEE International Symposium on Consumer Technology

*Erita Cicilia Febrianti*, Amang Sudarsono, Tri Budi Santoso  
10.1109/ISCT62336.2024.10791248

**A Hair Drawing Evaluation Algorithm for Exactness Assessment Method in Portrait Drawing Learning Assistant System** 2025 MDPI Algorithms Journal  
Yue Zhang, Nobuo Funabiki, *Erita Cicilia Febrianti*, Amang Sudarsono  
10.1109/ISCT62336.2024.10791248

## Projects

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**Troubleshooting Networking Issue in Web Server in AWS Service**

- Helping the customer, therefore, the customer can access their Web Server

**Troubleshooting Networking Resources in an Amazon Virtual Private Cloud (VPC)**

- Helping the customer set up the VPC for network connectivity

**Pairing-Based Cryptography in Protocol Electric Vehicle**

- Developed a secure protocol communication between user and server using pairing-based cryptography, encryption data, decryption data and using socket programming
- Tools Used: Kotlin, Java Servlet, MySQL

**Human Activity Recognition For Elderly People Using Pseudonym-Based Conditional Privacy Preservation Authentication**

- Developed an application in Android Studio to detect movement in elderly using SVM, CNN, LSTM, and LGBM and anonymize user data using blind signature RSA and ECC
- Tools Used: Kotlin, JavaScript, MySQL

#### **Mobile Crowd Sensing with Secure Coin Rewarding in Human Activity Recognition for Elderly People System**

- Developed an application in Android Studio to provide secure rewards using pairing-based cryptography in the form of coins to the elderly to increase their desire to exercise and move
- Tools Used: Kotlin, JavaScript

#### **Pengenalan Aktivitas Manusia Berbasis Sensor Accelerometer Dan Gyroscope Pada Smartphone Menggunakan Algoritma Support Vector Machine (SVM)**

- Developed an application in Android Studio to detect movement using SVM such as sitting, standing, walking, and running
- Tools Used: Java, PHP, Firebase

#### **Prototype Early Warning System at Unattended Railway Crossings**

- Developing early warning system at Unattended Railway Crossings using sensor proximity and Arduino
- Tools Used: Arduino, C

### **Honors And Awards**

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**Top 12 (Gold Category) Delegate of Youth Leaders Exchange and Conference (YLEC) Chapter 12 Bangkok 2026**

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**Awardee of AWS BackEnd Academy by Dicoding (2025)**

**Awardee of AWS re/Start Scholarship by Orbit Academy (2025)**

**Moderator in Python Automation Webinar Orang Siber Indonesia (2025)**

**Master of Computer Engineering Student — Graduated cum laude (2024)**

**Presenter in IEEE International Symposium on Consumer Technology (2024)**

**Awardee of LPDP Thesis Scholarship (2024)**

**Awardee of Beasiswa Riset PENS (2022)**

### **Licenses and certifications**

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**Google Cyber Security issued by Google (2025)**

**Automate Cybersecurity Tasks with Python issued by Google (2025)**

**Cloud Data Security University of Minnesota (2025)**

**Cybersecurity (Fresh Graduate Academy issued by Digital Talent Scholarship (2025)**

**Assets, Threats, and Vulnerabilities issued by Google (2025)**

**Connect and Protect: Networks and Network Security issued by Google (2025)**

**Discover the Art of Prompting issued by Google (2025)**

**Foundations of Cybersecurity issued by Google (2025)**

**Google AI Essentials issued by Google (2025)**

**Google AI Essentials V1 issued by Coursera (2025)**

**Identity and Access Management (IAM) issued by Packt (2025)**

**Introduction to AI issued by Google (2025)**

**Network Security issued by Cisco (2025)**

Play It Safe: Manage Security Risks issued by Google (2025)

Security Assessment and Testing by Packt (2025)

Stay Ahead of the AI Curve by Google (2025)

Tools of the Trade: Linux and SQL by Google (2025)

Use AI Responsibly by Google (2025)

Maximize Productivity With AI Tools issued by Google (2025)

Application Security for Developers and DevOps Professionals issued by IBM (2025)

Security for Professionals and DevOps Professionals issued by Coursera (2025)

Communication and Network Security issued by Packt (2025)

System and Network Security issued by LearnKartS - Customized eLearning Content Provider (2025)

Etika dan Budaya Digital (Micro Skill) issued by Digital Talent Scholarship (2025)

Teknologi Informasi (Micro Skill) issued by Digital Talent Scholarship (2025)

Keamanan Informasi "Introduction to Cyber Security and Career Awareness (Micro Skill)" issued by Digital Talent Scholarship (2025)

Cybersecurity (Fresh Graduate Academy) Issued by Digital Talent Scholarship (2025)

TOEFL ITP (Score:543/670) issued by ETS (2024)