

# Sid Gallen E. Tobias

Bachelor of Science in Electronics Engineering

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🌐 <https://tobiassidgallen.github.io/portfolio/>

🖱 <https://github.com/tobiassidgallen>

📍 Sunny Brooke 2, Brgy. San Francisco, General Trias, Cavite



## PROFESSIONAL SUMMARY

Electronics Engineering graduate with a strong technical foundation seeking to transition into system administration and IT infrastructure roles. Experienced in hardware troubleshooting, system diagnostics, and network configuration with hands-on background in embedded systems and microcontroller programming. Proficient in Linux and Windows environments with demonstrated ability to deliver real-world technical solutions. Passionate about system security, network infrastructure, and leveraging engineering problem-solving skills in IT operations.

## TECHNICAL SKILLS

**Operating Systems:** Linux Administration (Arch Linux), Windows Server, System Installation & Configuration, User & Permission Management, Shell Scripting, Performance Optimization

**Networking:** TCP/IP, DNS, DHCP, Network Troubleshooting, Router & Switch Configuration, Wireless Setup, VPN, Firewall Management

**Hardware & Troubleshooting:** Server Hardware Maintenance, System Diagnostics, Component Upgrade, Storage Configuration (RAID, NAS), Hardware Assembly & Repair

**IT Security:** Access Control, Backup & Recovery, System Hardening, Patch Management, Security Protocols

**Cloud & Virtualization:** Virtual Machine Configuration, Cloud Computing, Remote Access, Cloud Storage

**Programming & Development:** Python, C/C++, JavaScript, Bash Scripting, Git/GitHub, Web Development (HTML, CSS), Automation

**Electronics Engineering:** Microcontroller Programming (Arduino, Raspberry Pi), Circuit Analysis & Design, PCB Layout, Digital & Analog Systems, Embedded Systems Integration, RF/Wireless Communication

## PROFESSIONAL EXPERIENCE

Electronics Support Intern

Pro Board Technology Services (PBTS) Corporation | Carmona, Cavite

July 2023 - August 2023 (240 hours)

- **Assisted in troubleshooting and repairing electronic devices and circuit boards**
- **Performed circuit analysis, hardware diagnostics, and component testing**
- **Provided technical support for system diagnostics and equipment maintenance**
- **Supported testing operations to improve quality assurance processes**
- **Maintained technical reports and documentation for engineering tasks**
- **Gained hands-on experience with industrial IT infrastructure and hardware troubleshooting**
- **Applied systematic problem-solving methodologies in real-world technical support scenarios**

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## PROJECTS

Professional Web Development & Deployment

**Renovare General Construction Services** - <https://tobiassidgallen.github.io/renovare/>

- Developed and deployed responsive business website for construction services company
- Implemented modern design principles and cross-platform compatibility

**MJK Iron Works** - <https://mjkironworks.site/>

- Designed and deployed production website with custom domain configuration
- Managed web hosting environment and ongoing system maintenance

**Mabuhay Power & Diesel Generator Services** - <https://tobiassidgallen.github.io/mabuhay-power/>

- Built responsive business website currently serving active client base
- Utilized version control for deployment and updates

Automated System Development | Capstone Project

**Reverse Vending Machine for PET Plastic Bottles** -

[https://drive.google.com/file/d/1hgbdzbpwqbAUP-QoYpDYZP55lh\\_Qxnfx/view](https://drive.google.com/file/d/1hgbdzbpwqbAUP-QoYpDYZP55lh_Qxnfx/view)

- Designed and implemented embedded system using Arduino Uno and Raspberry Pi integration
  - Programmed motor control systems and sensor interfaces for automated bottle processing
  - Developed WiFi connectivity and access reward system
  - Implemented network communication protocols for remote monitoring
  - Successfully delivered functional prototype demonstrating systems integration capabilities
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## EDUCATION

Bachelor of Science in Electronics Engineering

Emilio Aguinaldo College - Cavite, Dasmariñas, Cavite

August 2020 - May 2024

Dean's Lister (2022-2024) | GPA: 1.70/5.00

Relevant Coursework:

- **Digital Systems:** Digital Electronics, Microprocessor/Microcontroller System Design, Digital IC Design
- **Communication Systems:** Principles of Communication, Modulation & Coding Techniques, Data Communication, Antenna System Design
- **Electronics Design:** Electronic Devices & Circuits, Circuit Analysis & Design, Analog IC Design, Signal Processing
- **Control Systems:** Feedback and Control Systems, Advanced Engineering Mathematics
- **Programming:** Computer Programming, Engineering Data Analysis
- **Hardware Design:** Electromagnetics, Materials Science, Computer-Aided Drafting