

# Peter Paul S. Catolpos

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## PROFESSIONAL SUMMARY

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Dedicated and results-driven Process Engineer with over 9 years of experience in optimizing manufacturing processes and driving continuous improvement initiatives. Proven expertise in Die Attach, Wire Bonding, Soldering, and YAG Welding, coupled with a strong background in hands-on training and product qualification. Proficient in applying Design of Experiment (DOE) methodologies and implementing Statistical Process Control (SPC) and Process Failure Mode and Effects Analysis (PFMEA) for process optimization.

## AREA OF EXPERTISE

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Manufacturing Line Troubleshooting  
Process Optimization  
Product Qualification  
ISO 9001:2015 and 14001:2015

Root Cause Analysis  
Statistical Process Control  
Design of Experiment  
AutoCAD 2D and 3D

Wire bonding  
Die Attach  
Soldering

## EMPLOYMENT HISTORY

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**Freelancer/Independent Contractor**  
*Upwork.com - Remote*

March 2020 –

- Collaborated with various clients on Upwork to provide freelance services in process engineering, web research, and Talent Sourcing.
- Successfully completed more than ten projects with high client satisfaction and positive reviews.
- Developed and maintained a strong freelance profile on Upwork, showcasing expertise and skills.

**Senior Process Engineer**

February 2018 – March 2020

*AM Swiss Microtec Inc. - Mactan Economic Zone 1, Lapu-Lapu City, Cebu, Philippines*

- Led a cross-functional team in Telecoils and micro-magnet product transfer from China Plant to Philippines.
- Led a cross-functional team in troubleshooting manufacturing line issues, identifying root causes, and implementing effective solutions, resulting in a 20% improvement in overall production efficiency.
- Provided technical support and training to production operators and technicians, contributing to a skilled and efficient workforce.
- Specialized in coil winding process (manual and auto), thermo-bonding, resistance welding, parylene coating, annealing, UV Coating and Curing, Glue Dispensing and PCB Soldering
- Implemented assembly process controls, ensuring compliance with industry standards and reducing defects by 25%.

**Process Engineering Assistant Manager**

March 2015 – February 2018

*Cebu Microelectronics Inc. - Mactan Economic Zone 1, Lapu-Lapu City, Cebu, Philippines*

- Assumed a leadership role in overseeing daily operations and ensuring seamless workflow within the department.
- Collaborated with the Senior Manager on strategies aimed at achieving departmental KPIs and objectives.
- Led a team of process engineers in troubleshooting manufacturing line issues, conducting root cause analyses, and implementing corrective actions, resulting in a 20% reduction in defects.
- Designed and executed experiments (DOEs) to optimize existing processes, reducing waste by 10%.
- Oversaw the relocation of Optical and Optoelectronics products, including Laser, Photodiode, TOSA, ROSA, SFP, Tunable Lasers, BiDi, from the China Plant to the Philippines, leading a cross-functional team
- Led a cross-functional team in product development, process development, and prototyping in the New Production Introduction (NPI) section.
- Led a team of engineers in optimizing Die Attach, Wire Bonding, Soldering and YAG welding processes.
- Specialized in wire bonding processes, with expertise in both automatic (Shinkawa Wire Bonder) and manual (West Bond Machine) bonding techniques.
- Led a team of engineers in researching wafer processes (Electro-plating, Lithography, Sputtering)
- Utilized a structured problem-solving model aligned with DMAIC principles to address operational challenges and drive positive outcomes.
- Collaborated closely with the QC Team to enhance processes related to Statistical Process control.

**Technical Development Senior Process Engineer**

February 2014 – March 2015

*Cebu Microelectronics Inc. - Mactan Economic Zone 1, Lapu-Lapu City, Cebu, Philippines*

- Spearheaded technical development initiatives within the Process Engineering team, aligning strategies with the company's objectives.
- Developed and implemented comprehensive training and development programs for cadet and junior process engineers.
- Collaborated with manufacturing engineering teams to transfer new technologies for new products and processes.
- Mentored and trained manufacturing engineers on Die attach, Wire Bonding, Soldering and YAG Welding.
- Led cross-functional teams in the design and implementation of innovative process improvements, resulting in a 20% reduction in defect rates and a 15% improvement in production cycle times.
- Applied Design of Experiment (DOE) methodologies to fine-tune parameters in Die Attach, Wire Bonding, and Soldering processes, enhancing operational efficiency.

- Led cross-functional team in conducting PFMEA and SPC analyses to identify potential failure modes and ensure statistical process control.
- Successfully completed product training in the China plant, contributing to the smooth transition of the production line to the Philippines.

**Cadet Process Engineer**

February 2011 – February 2014

*Cebu Microelectronics Inc. - Mactan Economic Zone 1, Lapu-Lapu City, Cebu, Philippines*

- Assisted senior engineers in conducting new product qualification of optical sub-assemblies and modules.
- Participated in hands-on training programs to gain practical experience in various manufacturing processes, including Die Attach, Wire Bonding, YAG Welding, and Soldering.
- Assisted in the optimization of Die Attach, Wire Bonding, Soldering, and YAG welding processes through structured problem-solving approaches.
- Collaborated with cross-functional teams to troubleshoot manufacturing line issues, contributing to a 10% reduction in defect rates.
- Executed tasks related to Statistical Process Control (SPC) and Process Failure Mode and Effects Analysis (PFMEA) under the guidance of experienced engineers.
- Contributed to the documentation of process workflows, standard operating procedures (SOPs), and best practices

## **EDUCATION**

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Bachelor of Science in Electronics and Communications Engineering, 2004-2009

University of Cebu, Lapu Lapu and Mandaue (UCLM)

Registered Electronics Engineer (License #0047153)