

## James F Allman III | Forensic Electrical Engineer, PE

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### Professional Summary:

Mr. Allman has over 40 years of engineering experience including the areas of Forensics, Electrical, Systems, Projects, Software, Processes, Controls, Manufacturing, and Process Engineering.

His total involvement in the engineering cycle from research and design to development, creation, and production; from specifications through creation to delivery or failure analysis, training, and maintenance; he has been involved in all aspects of the engineering realm and has met with them with his due diligence and experience. Add to this, his various stages of leadership, supervision, and sales including engineering management and the ownership and management of 3 corporate Indiana businesses.

His areas of expertise include the following:

- All electrical systems for residential.
- All electrical systems for commercial.
- All electrical systems for retail.
- All electrical systems for industrial.
- All electrical systems for manufacturing.
- All electrical systems for military.
- All electrical systems for governmental.
- All electrical systems for municipal.
- All electrical systems for parks.
- All electrical systems for water & wastewater processing.
- All electrical systems for laboratories.
- All electrical systems for non-hospital medical.
- All electrical systems for schools and sports facilities.
- All electrical systems for churches.
- Electrical, pneumatic, and hydraulic systems for manufacturing lines.

### Licenses and Certifications:

Professional Engineer, State of Indiana, #19700033

### Project Experience:

Over the last 40 years of his career, he has performed the following duties (from newest to oldest experiences):

Review site for cause and/or electrical evidence from a catastrophic occurrence on behalf of client.

Attend lab review and teardown of evidence collected on behalf of client.  
Generate forensic reports as necessary for client.  
Submit to testimony or deposition as required for client  
Create and coordinate electrical systems design utilizing Revit.  
Projects for Indianapolis Power and Light, Citizens Energy Group, Community Justice Campus, Indianapolis Airport Authority, and others.  
Coordinate ArcFlash studies, provide data collection, and site inspection.  
Conduct construction site inspections and punch lists.  
Participate in design or review of high and medium voltage distribution projects.  
Generate designs for renovation and new projects across 67,000 acres and 2,997 structures for Public Works on a DoD base.  
Organize and maintain the budgets and schedule for electrical designs of process and manufacturing plants.  
Produce high level engineering designs and Scopes of Work to guide these projects.  
Provide design direction and mentoring of Sr. Engineers and Designers.  
Interface and cooperate with customers and Project Managers.  
Generate electrical, power, lighting, and fire alarm system design for structures listed in the above areas of expertise using AutoCAD.  
Produce proper documentation and drawings for bidding and construction using AutoCAD Building Systems.  
Provide contractors with quality support.  
Generate all aspects of customer sales of access control and video surveillance, quotes and designs for sales' regional and national account managers.  
Produce proper documentation and drawings for operations group.  
Provide customers with quality support.  
Design, draw, and program control systems for tube end forming machines, custom and standard.  
Direct, monitor, and review electrical engineers in local & overseas company offices.  
Design electrical equipment for spraying systems on AutoCAD.  
Test and verify systems after installation and provide customer support.  
Manage development of water and wastewater treatment plants integrated control systems.  
Coordinated with multiple contractors and engineers on each contract.  
Produce design and drawings for controllers and panels using AutoCAD.  
Supervise Installation and test and operate installed equipment on factory floors.  
Train owners of the machines and plants.  
Performed daily support operations on factory floor.  
Troubleshoot malfunctioning manufacturing equipment to maintain operation during operation.  
Direct skilled trades personnel in repair and maintenance of this manufacturing equipment.  
Design and/or procure modifications to manufacturing equipment for improved reliability and throughput.  
Design and build of a chilled acid distribution system, battery acid dip machine, battery vacuum machine, and a shrink-wrap machine for use in a lean cell manufacturing line implemented in Mexico.  
Research and determination of customer requirements, creation of concept, design of electrical and/or mechanical systems, generation of control programming, testing, support, validation, and training for these machines.  
Build and wire panels and sensors for above machines.

### Court Qualifications/ Depositions:

Litigation CV available upon request.

### Professional Experience:

Forensic Electrical Engineer, EFI Global Inc., 11/2020 – Current  
Senior Electrical Engineer, CMID Inc., via GCI Inc. (Part Time Contract), 11/2019 – 7/2020  
Senior Electrical Engineer, CMID Inc., via MMY Consulting, Inc. (Contract), 7/2020 – Current  
Senior Electrical Engineer, Dept of Navy, Public Works (Civil Servant), 1/2018 – 11/2019  
Electrical Engineering Consultant, Badger Engineering, (Part Time Contract), 2/2017 – Current  
Senior Electrical Engineer, Ghafari Associates LLC, 4/2015 – 11/2016  
Project Lead Engineer, Superior Engineering LLC, 7/2014 – 4/2015  
Electrical Engineer, Advanced Engineering Consultants, Inc., 1/2011 – 7/2014  
Electrical Engineer, Design-Aire Engineering, Inc., 6/2010 – 12/2010  
Electrical Engineer, HCO, Inc., 7/2009 – 6/2010  
Electrical Engineer, Fanning Howey Associates Inc., 6/2007 – 6/2009  
National Sales & Field Applications Engineer, Stanley Works, SSS-SI, 9/2005 – 6/2007  
Controls Technician, Aristo Machines, 10/2004 – 9/2005  
Electrical Engineering Manager, Hi Tech Systems, 3/2003 – 6/2004  
Project Engineer, Integrated Process Systems, 1/2001 – 11/2001  
Sr. Process/Controls Engineer, United Technologies, Carrier, 5/2000 – 11/2000  
Controls/Mechanical Engineer, Software/Process Engineer, Software Engineer, Delphi Energy & Chassis Systems, via Rapid Design Services, Inc. (Contract)  
Software/Systems Engineer, Naval Avionics, DoD, 1/1986 – 9/1990  
Co-Op Engineer, Crane Naval Weapons SC, DoD, 11/1982 – 11/1985

### Education:

Bachelor of Science in Electrical Engineering  
Tri-State (Trine) University, Angola, In., 1985

- Electrical Engineering w/Digital's Option (Computer Engineering)
- Co-Operative Education (He worked in an engineering roll for 6 months out of every academic year, for over 4 years, as an Engineering Intern)

### Affiliations:

National Society of Professional Engineers  
Indiana Society of Professional Engineers  
Past Master of Free and Accepted Masons of Indiana, Irvington Lodge