



## BIO: MICHAEL HARMON

Michael Harmon is Vice President of our Engineering Department, and has 25 solid years of experience in project management, estimating and designing. He brings a high level of excellence in the preparation and implementation of solar project that will assist our crew in installing the best solar array for our clients.

Michael works with our Engineering partners the [SSOE Group](#) in designing solar systems projects. Michael is currently partnering in developing an environmental friendly flow type of a storage battery back-up system. ACE, LLC. SOLAR looks to have this system market ready late 2017.

He has an electrical controls background, is a hands on project manager specializing in system design, layout, cost effective evaluation and problem solving. He has designed melting systems, induction holding and pouring systems and heat-treating furnaces. At the startup of Magotteaux he converted a manually controlled pressure pour furnace to operate automatically; improving operating efficiency, product consistency and was a major factor in the company turning a profit within 7 months of operation.

Michael redesigned a 900KW heat treat furnace SCR inverter power system that outperformed the French manufacturers design by 40%. He pioneered the use of programmable controls on this same furnace in 1979, the first such system in the company's worldwide operation of 17 foundries.

During his tenure as **chief project manager** in the Engineering Department, he was able to increase liner plate production from 50 tons a month to 200 tons a month with no additional people and in the same space. Later, with building expansion and larger equipment was able to push this capacity to 1000 tons a month. The parent company in Belgium spent 10 times the budget with half the results.

Additionally, Michael was the **project manager** for the startup of an extrusion, injection molding and coating operation for Saar Gummi, a Tier 1 automotive supplier in Pulaski, Tennessee. The scope of this project was to study and duplicate the operation of the Thona Corporation based in Canada. The company was later purchased by Saar Gummi, a rubber manufacturer from Germany and still operates under that name today.

After being involved in two major plant startups and then working for over 9 years as an **estimator / project manager** for Richland, LLC, a general contractor in Pulaski, Tennessee, Michael brings a very broad knowledge base and a proven track record of analyzing and evaluating industrial systems, problem solving, controls development and continuous improvement.

Michael has a BS,CIS degree form Athens State College, Athens, AL. He Also studied at Auburn University Extension, Birmingham, AL, CE Studies in Strength of Materials. He continued his education at Western Michigan University, Kalamazoo, MI, CE Studies in Paper Manufacturing.

He served for a year as an advisor to PC Magazine's technical advisory board.

Michael lives with Emily, his wife of 49 years, in Pulaski, Tennessee. They have raised two sons who also live locally.