

Nicholas Smith Renner

3 Norman Lane, Philadelphia, PA 19118 • 267-446-5776 (cell) • nrenner@integratedsympiotics.com

Professional Experience

Integrated Symbiotics – Philadelphia, PA
Director of Business Development and Engineering

Jan. 2015 – Present

- Business Development
 - Create and negotiate all sales proposals
 - Market company through online resources
 - Responsible for all business accounting
 - Act as Human Resources director
- Engineering
 - Develop engineering plans for energy use and plumbing of water management, aquaponic, and hydroponic systems
 - Prototype systems
 - Conduct energy analysis and audits for renewable energy sources

PhillyEarth – Philadelphia, PA
Aquaponics Initiative Co-Founder, Lead Engineer/Project Manager

Jan. 2014 – Present

- Engineering
 - Developed heat and light optimization plan for the earthship aquaponics greenhouse
 - Designed and installed full 1.0 kW off-grid PV and battery system to provide power to electrical equipment
 - Constructed blueprints and engineering documents for installation of aquaponics hardware and plumbing
- Business Development
 - Fund-raised \$10,000 for the development of the project, as well as donations of construction materials
 - Oversaw project budget
- Project Management
 - Managed construction of greenhouse and aquaponic system

Fort Smith Petro Environmental – Fort Smith, AR
Used and Emulsified Oil Reclamation plant catering to waste generated by the Natural Gas industry
Director of Operations - Management Consultant

Feb. 2012 – Nov. 2013

- Operations
 - Transformed company from losing over \$250k per year to profitable over course of employment
 - Managed and supervised all company employees, including sales team
 - Served as Account Manager for the company's highest-profile clients
- Finance
 - Conducted and maintained managerial accounting and budgeting, balance sheets, financial projections, pro forma statements
 - Lead meetings with the Board of Directors, purveying company status through financial statements and sales reports
- Engineering
 - Review plant for improvements on an ongoing basis
 - Created and implemented a full Health, Safety and Environmental program
- Human Resources
 - Oversee all human resource functions, including the hiring, termination and development of employees

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Princeton Power Systems – Princeton, NJ
2011

May 2011 – Dec.

Junior Applications Engineer

- Solar and Energy Storage System Design
 - Assisted in the writing of feasibility studies and the submission of bid proposals
 - Constructed one-line electrical drawings for solar and energy storage projects using AutoCad 2010 with specifications adhering to system performance requirements and the National Electrical Code
 - Generated bills of materials for solar and energy storage projects
 - Performed comprehensive cost analysis of solar arrays
 - Created comparisons of photovoltaic modules and energy storage devices based on performance capabilities
- Test and Assembly
 - Conducted inverter calibration and testing using various power quality tools
 - Assembled the company's power electronic products, including its signature Grid-Tied Inverter

Skills

- Languages
 - C/C++
 - Python
 - Bash
 - HTML/CSS/JavaScript
- Frameworks
 - Django
 - Flask
- Database
 - MySQL
- Operating Systems:
 - Linux, Mac OS, Windows
- Source Control/Open Sourcing
 - GitHub
 - GitLab

Education

- **Tufts University** – Medford, MA
 - Bachelor of Science in Chemical and Biological Engineering

May 2010