



## Darrell L. Harrison

### Applications Engineer / Mechanical Engineer

Darrell has a proven track record providing construction oversight to technically challenging and unique projects. He has the most recent experiences of overseeing the reroofing of 168,000 SF timber framed manufacturing facility. He has worked closely with Ron Rideout as on-site construction manager and owner representative. His most recent project required providing direction, scheduling and quality control for several crews ranging from 4 to 8 laborers, foreman and superintendents.

Dirigo Building Science Engineers will be utilizing all of Darrell's talents as he will serve as our primary construction manager on demonstration projects using cross laminated timber (CLT), glulam and custom designed connections. He will also be working to design and develop the infrastructure needed for mass timber processes.

Darrell will provide Revit MEP models and designs and to evaluate existing conditions and make recommendations for new sustainable systems utilizing various energy sources.

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## Professional History

### 2020 – Present

Dirigo Building Science Engineers, LLC  
Manager of Construction Services

### 2017 – Present

Southwest Georgia Technical Services (SOWEGATS, LLC)  
Owner, General Manager, Chief Engineer

### 2010 – 2016

Green Industry Solutions / Binder Science  
Senior Mechanical Engineer, Projects, and Design

### 1995 – Present

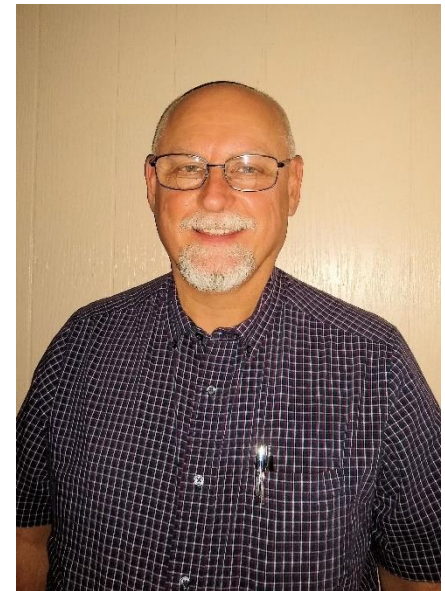
South Eastern Engineering Sales Company (SESC, Inc.)  
Owner / General Manager / Projects and Design Engineer

### 1985 – 1994

Southwire Company  
Mechanical Engineer / Engineering and Maintenance Manager

### 1983 – 1984

Alabama Power  
Co-op Engineer



## Education

**Bachelor of Science in Applied Physics (1983)** Georgia Institute of Technology

**Bachelor of Mechanical Engineering, Co-Operative Plan (1985)** Georgia Institute of Technology

## Awards

Major A.A. Case Technological Achievement Award for Development and Certification of Manufacturing 4/0-19 Stranded Copper Wire on a High-Speed Double-Twist Buncher

Project of the Year Award for Implementation of PVC/Nylon Co-Extrusion Process for THHN/THWN

Major A.A. Case Technological Achievement Award for Internal Design, Development and Manufacture of a High-Speed Double-Twist Buncher for 16-9 thru 10-19 THHN/THWN Stranded Copper Wire

## Computer Programs

MS Office, Program Logical Controls (PLC) ladder logic, Alibre' Design Pro (3D mechanical modeling and drafting), AutoCAD, DraftSight. Currently learning Risa 3D and Revit ASMEP applications.





## Professional Experience

### **Manager of Construction Services | Dirigo Building Science Engineers, LLC | Veazie, Maine**

Provides management and oversight of demonstration projects that utilize engineered wood products such as cross-laminated timber, fiber-reinforced plastics, and glulam. Delivers Revit models and designs. Utilizes background in mechanical engineering to complete design and installation of heating, ventilation, and air conditioning systems.

### **Owner, General Manager, Chief Engineer | Southwest Georgia Technical Services (SOWEGATS, LLC) | Cairo, Georgia**

Interface with contractors and personnel including plant managers, purchasing agents, department superintendents, mechanical and electrical maintenance, and facilities maintenance. Work on projects that include removal and replacement of old ventilation systems to include managing ventilation contractor and consulting with ventilation engineering and supply company. Compile field measurements and produce drawings for existing equipment removal and modification and new equipment layout and installation. Work with plant maintenance with layout, material flow, drawings, and engineering support.

### **Senior Mechanical Engineer, Projects, and Design | Green Industrial Solutions (GIS, LLC) / Binder Science | Ruston, Louisiana / The Woodlands, Texas**

Worked on machine design, manufacture, and modification of chemical mixing, blending and pumping systems for maximum reliability and runtime. Assisted lab scientists with drawings and designs for lab test equipment. Provided project management for bringing laboratory concepts and sample up to full-scale production. Developed project budget estimates and control. Produced flow charts for PLC programming and performed electronic control design for precision chemical metering systems. Helped develop trailer mounted mobile pumping and chemical metering systems for servicing drilling, hydraulic fracturing, and post fracturing (coil tubing) operations.

### **Owner / General Manager / Projects and Design Engineer | SouthEastern Engineering Sales Company (SESC, Inc.) | Haines City, Florida**

Serve as manufacturer's representatives to the pulp, paper, plastic, foil and similar industries under conversion to market driven manufacturing processes. Technical expertise in spray coatings with the application of mechanics required to provide viscosity controls. Provides design guidance and brokering of ultraviolet (UV) measurement devices.

### **Mechanical Engineer / Engineering and Maintenance Manager | Southwire Company | Carrollton, Georgia**

Worked on machine design and modification for maximum reliability and runtime. Assisted maintenance with drawings and design changes during breakdowns to get machines back online as quickly as possible. Provided project management for moving existing machines and/or installing new machines. Compiled project budget estimates and controls. Worked with electrical engineers to produce flow charts for programmable logic controls (PLC) configuration. Worked with civil engineers to ensure proper construction of buildings, machine foundations and material handling cranes, hoists and other structures as required.

### **Co-op Engineer | Alabama Power | Ashford, Alabama**

Provided daily fuel burn calculations; new fuel inventory; and spent fuel inventory. Assisted with reactor start-up physics testing. Assisted with procedures revisions and document control.

