Auburn University – MIDC Blue

**Strategic Approach:**
- **Type of Project:** Two Story Single Family House
- **Location/Climate:** Auburn, AL, CZ 3A
- **Design Strategy:**
  - Open layout that minimizes hallways with stacked utilities maximizes usable space.
- **Technical Strategy**
  - Enclosure: Fibercement Board, Rainscreen, R-5 Rigid Insulation, Housewrap, Sheathing, over a 2’O.C. Stud Cavity containing R-15 Batt Insulation
  - HVAC: Ductless Mini-Split and circulation air by integrated ERV
  - IAQ: Low chemical materials and high-merv filtrations
  - Construction Cost Strategy: Used money saved on right-sizing for high-performance features, eliminated duct system, eliminated basement

**Technical Specifications:**
- Wall R-Value: **R-15 + 5**
- Ceiling R-Value: **R-38**
- Foundation Wall R-Value: **R-5**
- Window U-Value: **.28 - .30 (varies)**
- Window SHGC: **.25 - .18 (varies)**
- Heat Pump HSPF: **9.3**
- Heat Pump SEER: **17.5**
- Water Heater EF: **2.4**

**Key Statistics:**
- Location: **Auburn, Alabama**
- 2009 IECC Climate Zone: **3A**
- Square Feet: **1,608**
- Number of Stories: **2**
- Number of Bedrooms: **3**
- Number of Bathrooms: **2.5**
- Estimated Construction Cost: **$178,000**
- HERS Index Score: **44**
- Estimated Monthly Energy Cost: **$71**