

# HEATH BABB

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Inman, SC 29349

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## SUMMARY

Experienced and innovative Civil Designer with 15+ years of experience in geospatial systems and data analysis, complemented by proficiency in modern front-end technologies. Proven ability to adapt complex technical workflows and data-driven insights to user-focused digital solutions. Seeking to leverage technical expertise in software and web development roles.

## EXPERIENCE

### **Garver Engineering**

*Greenville, SC — Civil Designer*

APRIL 2025 – PRESENT

- Enhanced civil design accuracy by integrating advanced software tools and automating documentation workflows, resulting in reduced errors and faster turnaround.
- Increased team productivity by 30% through the development and implementation of optimized workflows.
- Built custom Dynamo and Python tools to automate CAD tasks, significantly improving design efficiency.
- Led training sessions for Civil Technicians on new tools and workflows, improving team capability and consistency.

### **HB Consultants, LLC**

*Inman, SC — Owner | Lead Consultant*

APRIL 2024 - PRESENT

- Delivered custom websites using HTML, CSS, JavaScript, and modern frameworks, ensuring responsive design and high performance for clients.
- Managed end-to-end web service deployment, including domain registration, hosting, and site maintenance, streamlining the client onboarding process.
- Supported land surveyors with technical consulting, improving operational uptime.
- Developed custom Civil 3D tools using LISP and Python, reducing manual drafting time and increasing precision.

### **Civil & Environmental Consultants, Inc.**

*Greenville, SC — Sr. CAD Technician*

NOVEMBER 2022 - AUGUST 2024

- Restructured survey workflows and applied automation tools, achieving a 400% increase in revenue.
- Delivered Trimble systems training across offices, accelerating technology adoption and improving data consistency.
- Boosted LiDAR processing speed by 150% using AI and standardized procedures, improving deliverable quality.
- Authored CAD standards and training documents and supervised drafting teams, ensuring consistent project quality.

## **EAS Professionals, Inc**

*Greenville, SC — Sr. CAD Technician*

DECEMBER 2017 - NOVEMBER 2022

- Spearheaded CAD system modernization by upgrading tools and standardizing workflows, resulting in faster delivery and improved team performance.
- Led technology integration initiatives that boosted production and revenue through improved hardware and workflow efficiency.
- Directed the transition to Trimble survey systems and provided comprehensive staff training, minimizing downtime.
- Supported environmental and geotechnical teams by deploying GIS technology, increasing field data autonomy.
- Established standardized data workflows to enhance coordination between field crews and office teams.

## **GE Power (GE Verona)**

*Greenville, SC — CNC Machinist A*

MAY 2016 - DECEMBER 2017

- Operated CNC broach systems for turbine wheel manufacturing, maintaining precise tolerances critical to gas turbine performance.

## **Azimuth Control, Inc**

*Greenville, SC — CAD Specialist | 3D Machine Control Modeler*

MAY 2013 - MAY 2016

- Upgraded design systems from Civil 3D to Carlson Civil Suite, improving compatibility with client deliverables.
- Provided IT support and web development, enhancing internal systems and field crew connectivity.
- Created and maintained 3D machine control models, ensuring accurate field machine automation.
- Assisted field crews and calibrated GPS equipment, ensuring reliable on-site operations.
- Built a terrestrial LiDAR scanning program and processed point cloud data, improving project detail and as-built accuracy.

## **Morgan Corp.**

*Duncan, SC — Estimator | Survey CAD Technician*

FEBRUARY 2007 - MAY 2013

- Conducted quantity takeoffs using CAD, Terramodel, and Agtek, improving bid accuracy.
- Set site control points using GPS and Total Stations, enabling precise field layout.
- Created 3D models for machine control, reducing rework and improving grading accuracy.
- Supported bidding with Bid2Win and Primavera P6, ensuring competitive and realistic project proposals.
- Designed proposal documents with Adobe Creative Suite, enhancing client presentations.

## EDUCATION

### **Codecademy**

*Online - Full-Stack Engineer*

Ongoing

A comprehensive program covering both frontend and backend web development

### **Scrimba**

*Online - Frontend Engineer*

Ongoing

An immersive, interactive course developed in collaboration with Mozilla MDN. Focusses on HTML, CSS, JavaScript, responsive design, accessibility, and React.

### **Greenville Technical College**

*Greenville, SC - Aircraft Maintenance | Aircraft Electronics*

FAA approved Associate in Applied Science program providing technical, mechanical, and academic skills required to become an aircraft maintenance technician.

### **Spartanburg Community College**

*Spartanburg, SC - Civil Engineering Technology*

Associate of Applied Science program focused on infrastructure design, surveying, materials, and construction management.

### **Spartanburg Community College**

*Spartanburg, SC - Machine Tool Technology*

Associate of Applied Science program teaching set up and operation of standard machine tools and computer numerical control.

## SKILLS

Web development, CAD Software, civil engineering, geospatial systems, data analysis, LiDAR processing, Digital solutions, design regulations

## TECHNICAL SKILLS

HTML, CSS, JavaScript, TypeScript, Python, TailwindCSS, Next, Nest, AWS, Digital Ocean, Civil 3D, Sass, SaaS