

(530) 913 8141
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<https://baanenterprises.com>

PCB CAD

ALTIUM DESIGNER

- Schematic Capture.
- PCB Layout Experience in designs up to 6 Layers
- Component & PCB Footprint Libraries.
- Manufacturing File Generation:
Excellon drill files, Gerber files RS274x, Excel BOM, 3D Step files,
Pick & Place files. Mechanical Drawing Informational pdf's

P-CAD

- Have full P-CAD capability. Haven't used in a long time
-

EMBEDDED

CYPRESS PSoC CREATOR

- ARM Cortex M0 and 8051 C code
- Digital Logic using Schematic Library and parameters
- Digital Logic Look Up Tables using text files
- FLASH memory usage for parameter storage
- Cypress PSoC5 Analog Libraries configurations MUX's & A2D's
- Embedded Logic for controlling direction & counts for a Stepper Motor Drive

ARDUINO

- Using the Arduino object style code
 - Duty Cycle controller for my Air Conditioner
 - De-Bounce radio-style Button processor
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**ELECTRONIC
DESIGNS**

ANALOG

- Discretes: MOS-FETS, J-FETS, Transistors
- IC's: OP-Amps RC's Integrators, Filters
- Analog in Cypress PSoC5's

DIGITAL

- Logic in Cypress Semiconductors
- Embedded Logic for controlling direction & counts for a Stepper Motor Drive

SOLDERING & WIRING

- Thru-Hole SOIC, 0603's 0805's (Still learning QFN's) Ribbons, Heat shrink

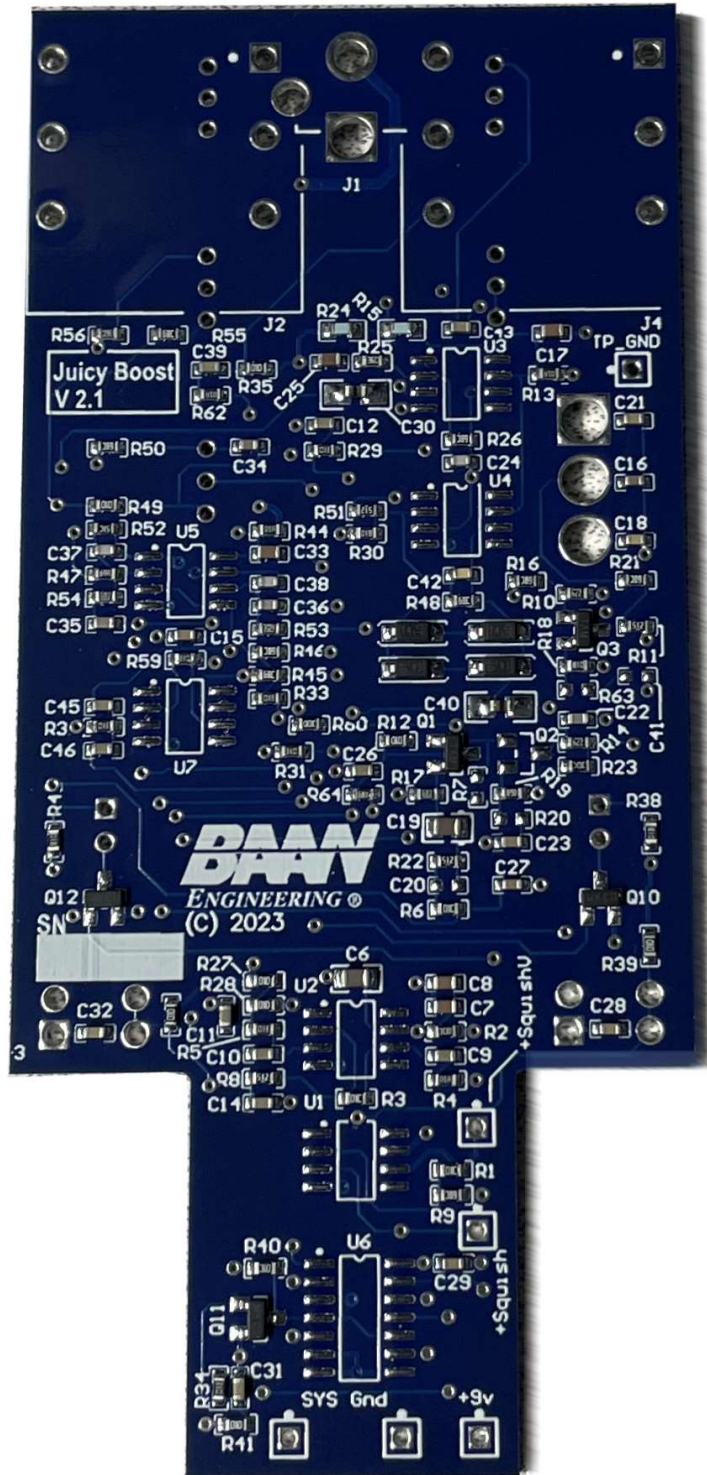
**HARDWARE
TOOLS**

- Tektronix TDS 2024
- Pico Scope 6 & Arbitrary Waveform Generator
- Power Supplies and Variacs
- Metcal SP 200 Soldering Station
- DVM's Multimeters Function Generators.
- Newport Optical Power Meter 1830c w/Integrating sphere
- Heat Gun

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ELECTRONIC
HARDWARE
DESIGN



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FINISHED
MECHANICAL
AND
ELECTRONIC
DESIGN



WEB PAGE
USING
WORDPRESS

<https://baanenterprises.com/over-easy/>



**AUDIO
PRODUCTION**

SONAR X3

- Analog Tracking
- MIDI Tracking
- Mix & Mastering also mixing using middle-side technique

MELODYNE 4

- Pitch and timing repair
- Harmony creation

AUDACITY

- All types of editing, post mastering, eq, , file type conversion

RIP-X

- Pulling stems and removing tracks

TOONTRACK EZ DRUMMER

- Composing drum parts or replacing drum parts. Also using Drums on Demand

TOONTRAK EZ BASS

- Replacing bass parts, or creating MIDI bass parts

**VIDEO &
IMAGE**

SONY VEGAS

- Multi-track Parent/Child track movement animation
- Assembly of a phoneme mouth library for an animated character
- Basic assembly of custom slide shows using plugin's in clips

PAINT SHOP PRO

- Layer overlays for frame generation in GIF file creation
- Repairing of old photos
- Editing images for ad media
- Using built in effects to alter color contrast brightness
- Preparing image media for user manual composing

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LINKS FOR
PROJECTS

BAAN Engineering invented the digital wafer/mirror system for UBERSEE Inc.
Atlanta Airfield (Sept 2011) electronics to drive the digital wafers seen here:
<https://segd.org/content/airfield/>

BMW Paris (Nov 2011) Same electronics to drive the digital mirrors seen here:
<https://vimeo.com/48930925/>

BMW London (May 2012) same electronics to drive the digital mirrors seen here:
<https://www.youtube.com/watch?v=0am-akDSegQ/>

Video production Ryan Ashford "Little Monster Media"
BAAN Engineering (Sept 2015) Music Composition & Production for the video "Click Click" seen here:
<https://youtu.be/QjTWJ96luJo/>
