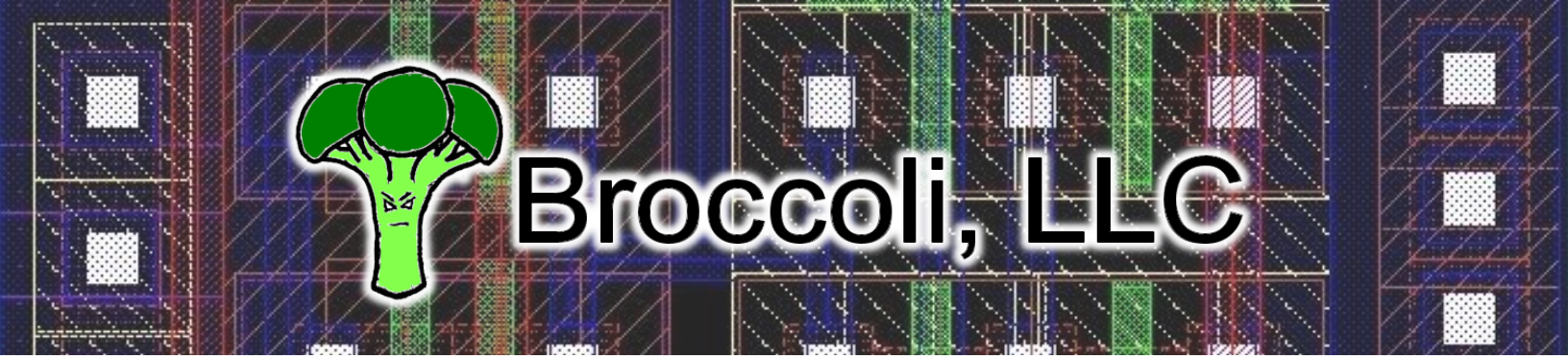

Capability Statement

Broccoli develops efficient configurable platforms for digital signal processing on the edge, specializing in the design of complex and non-deterministic control structures to optimize compute architecture for program workload characteristics.

Core Competencies

- Digital Signal Processing
- Program Workload Analysis for Circuit Optimization
- Configurable Array Architectures
- Custom Timed Circuits
- Pre and Post Silicon Validation
- Chip Tapeout
- Compiler Design

Differentiators

- Self-Timed Circuits Expertise
- Non-Deterministic Circuits Expertise

Company Information

Broccoli, LLC est. Indiana 2021
Web: https://www.broccolimicro.io
Address: 2251 S Element Way Apt 204, Bloomington IN, 47403
DUNS: 118489606
CAGE: 9B2J7
UEI: XYJSR51DYM49
NAICS: 334413, 541512, 541715
PSC: AC33, AJ13
Socio-Economic Certifications: HUBZone
Name: Edward Bingham, Member
Email: edward.bingham@broccolimicro.io
Phone: (812) 606-2407

Past Performance

- Self-Timed Length Adaptive Arithmetic
  Supported by CCF-1065307, CCF-1617945, N00014-13-1-0419, FA8750-15-1-0173
- A Systematic Approach for Arbitration Expressions [doi.org/10.1109/TCSI.2020.3011552]
- Self-Timed Adaptive Digit-Serial Addition [doi.org/10.1109/TVLSI.2019.2918441]
- QDI Constant Time Counters [doi.org/10.1109/TVLSI.2018.2867289]
- Open lecture series on Self-Timed Circuits [github.com/nbingham1/async-course]
- Open source tools for Synthesis of Self-Timed Circuits [github.com/nbingham1/haystack]
- Contributions to open source tools for Self-Timed Circuit Design [github.com/asyncvlsi/act]