COLLEGE OF FOOD, AGRICULTURE, AND ENVIRONMENTAL SCIENCE / SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES

SenselCs Internship

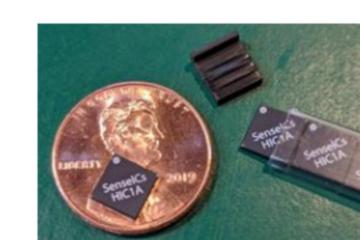
Ella Sheppard

BACKGROUND

- Business Development Research Intern at SenselCs
- Located in Columbus, OH
- Office space in a Rev1 Ventures' facility
- Company is engineering innovation in integrated circuit design to advance:
 - Imaging capabilities
 - Secure 5G
 - Trusted microelectronics
 - Performance in high radiation environments
- Leadership has unique design and engineering experience
- Small business: 8 employees
- Connected through Ohio Third Frontier Diversity and Inclusion Technology Internship Program
- I started in December 2020







A SenselCs chip shown on a penny for size reference.

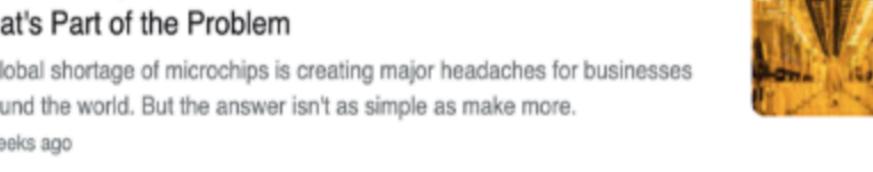
INTRODUCTION

- SenselCs designs integrated circuits
- Integrated circuits are used for: cars, phones, microwaves, cameras, computers and more
- Foundries build the chips
 - Chips contain semiconductor materials
 - This process is very expensive
- Semiconductors have been in the news recently because of a global shortage
- Semiconductor shortage impacted our work and increased foundry wait times

Bloomberg.com

Chip Shortage 2021: Semiconductors Are Hard to Make and That's Part of the Problem

A global shortage of microchips is creating major headaches for businesses around the world. But the answer isn't as simple as make more. 3 weeks ago

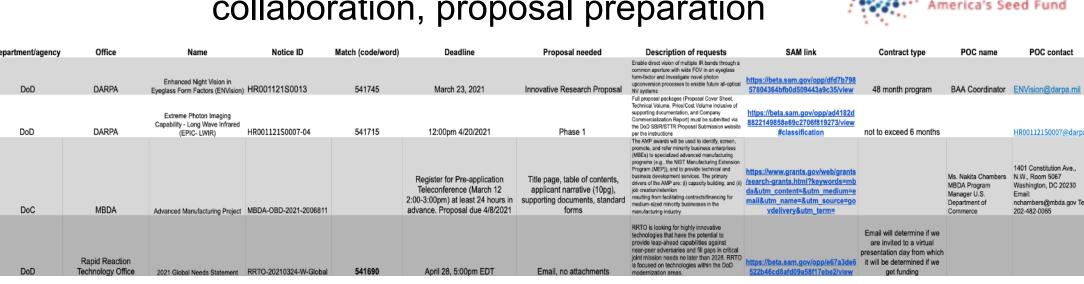


Written by: Ian King, Adrian Leung, and Demetrios Pogkas. Published May 6, 2021

ON THE JOB Responsibilities

- Funding
- Research
 - Tracking
 - Background information
 - Commercialization potential
 - Program contacts
- Public Relations
 - Identify contacts
 - Make connections
- Meetings
 - Weekly internal
 - External: Program contacts, potential collaboration, proposal preparation

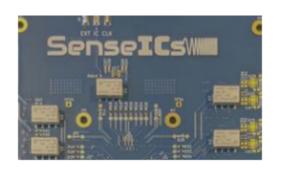




A screenshot from the funding tracker I created ACCOMPLISHMENTS

- In my time at SenselCs, we were awarded two funding contracts:
 - AFWERX (Air Force Innovation team)
 - Office of Naval Research







AFWERX award. Released April 21,

SenselCs in the News

Columbus company wins \$2M-plus from DOD for integrated circuit design house

ELECTRICAL & COMPUTER ENGINEERING

Columbus CEO TechTalk Column covering SenselCs' founders, funding,

Published 5:13 p.m. ET Jul. 3, 2021

Cynthia Bent Findlay For Columbus CEO

and background. Article by: Cynthia Bent Findlay, published July 3, 2021.



Building on a previous \$200,000 award win, new contract will advance Air Force access to Press release from SenselCs after

Ohio State ECE alumni earn \$50,000 to create Air Force 5G electronics

SenseICs

SenselCs' AFWERX win published on the OSU ECE website on May 18, 2021. Written by Ryan Horns.

RESEARCH

- Semiconductor industry sustainability
- Chose 8 companies publicly traded in U.S. or Canada based on their 12-month trailing revenue
- Companies Include:
 - Intel
 - Texas Instruments
 - Micron Technology
 - Taiwan Semiconductor Manufacturing Co.
- Organized data with the Community Capitals Framework
 - Made diagram below to inform team of factors in each category

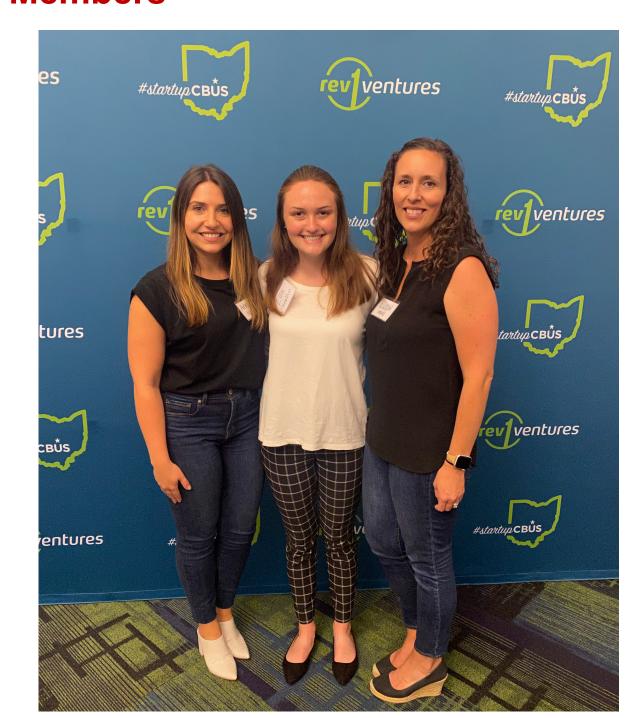


REV1 COHORT

- Professional development sessions
 - Implicit Bias
 - Planning for the future
- Discussion with Rev1 CEO Tom Walker
- Rev1 Mentor: Andrew Ewing
 - Manager of Corporate Connections
 - Met weekly
- Intern networking session
- Access to The Elite Leadership Alliance platform
 - Leadership topics in the news
 - Practice opportunities
 - Courses



Rev1 Team Members



Mentor Andrea Ewing (L) and Director of Entrepreneur Programs Alison Lopriore (R)

REFLECTIONS

- Enjoyed the challenges and benefits of a startup company:
 - Unanticipated tasks
 - Close-knit team
- Want to experience being on the support side of startups (Rev1 Ventures)
- Will pursue other startup opportunities
 - Interested in environmental technology
- If you are interested in a startup company, be flexible and ready to learn

SenselCs Team



