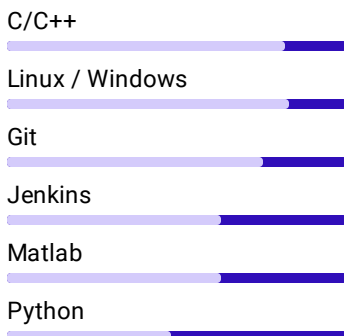# Emily Daitch

Embedded software engineer looking for opportunity in Atlanta, GA. Currently leading an international web development study group. Passionate about creating tools that benefit society. Enjoys spending time outdoors, painting with acrylics, and crafting with her 3D printer.

Urbandale, IA
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TECHNOLOGIES

C/C++

Linux / Windows

Git

Jenkins

Matlab

Python

CURRENTLY MASTERING

Agile   TDD   HTML5

CSS3   JavaScript

EDUCATION

Georgia Institute of Technology

Atlanta, GA
2013 — 2017
B.S. Computer Engineering
High Honors
GPA: 3.42

WORK EXPERIENCE

Software Engineer, John Deere

Urbandale, and Ankeny IA • July 2019 — Present

-–-Engineering Development Program Rotations-–-
- Electronics Engineering Group - Sprayers - Des Moines Works Factory, Ankeny, IA
• Refactoring C++ software to support implementing AutoSAR on John Deere Sprayers
• Developing MBSD components in MATLAB Simulink for use in the AutoSAR ecosystem

- Section Control - Intelligent Solutions Group (ISG) Urbandale, IA
• Lead developer of Manual Overlap Control App to provide more accurate yield data
• Contributed production software from Presentation layer down to Communication layer, manipulating objects sent to other ECUs

- Automation Delivery Organization - ISG Urbandale, IA
• Learned Docker to containerize and modernize a legacy test environment, improving security
• Integrated the virtualized environment with Jenkins during shift to AWS cloud
• Refactored 20+ Jenkinsfiles

CAN Network Product Engineering Intern, John Deere

Cary, NC • May 2016 — July 2016

• Accelerated log analysis by automating detection of faulty signals
• Worked with Vector CANalyzer to solve engine-controller defects

Software Engineering Intern, John Deere

Urbandale, IA • May 2015 — July 2015

• Personally developed 3D-visualization playback tool for troubleshooting CV applications
• Gained experience with boost, Qt, and OpenCV
• Built HIL pipe to transmit images from a camera over the network to a Guidance Algorithm

RESEARCH

Low Frequency Radio Lab Undergraduate Research Assistant

Georgia Tech Atlanta, GA • March 2014 — June 2015

• Prototyped a portable radio receiver to combat phase instability in the field
• Using BeagleBone Black Programmable Real-Time Units and Digilent FGPA
• Best Research Presentation Award 2016 and 2017

Rainbow Employee Resource Group

Urbandale , IA and Cary, NC • 2016 Summer Internship — Present

• Organized resume review session with LGBT University of NC students
• Presented Educational LGBT material to a D&I curated diversity initiative