

## Information Technology

### Dynamic Nodes

#### **Abstract**

Local Nomads is a business that strives to connect people with local food providers in their area, including farmers and restaurants that specialize in using local ingredients. They plan to do this by creating a place for people to connect with the individuals who run these businesses.

#### **Team members:**

Olivia Hughes

Edwin Torres

#### **Sponsors**

*Tarun Girish*

David Keathly



## Information Technology

### a11ys

#### **Abstract**

Pencil Code is a powerful learning tool for youth learning computer programming. Pencil Code combines a puzzle-like visual representation of code and raw text input, making it a hybrid of code representation that is easy for beginners to comprehend. Unfortunately, this powerful tool is not designed to work with assistive technologies and the user interface strictly requires mouse input. This limits Pencil Code's utility as an education software because its features are not accessible for users with disabilities.

Our team will implement the necessary accessibility enhancements to Pencil Code by following the Web Content Accessibility Guidelines WCAG, a specification that is standard in all web browsers.

#### **Team members:**

Casey Carroll  
Zachary Rice  
Matt Holladay

#### **Sponsors**

*Stephanie Ludi*  
David Keathly

#### **Acknowledgements:**

The Pencil Code Project, its developers, and open source contributors.



## Information Technology

### Umbrella

#### **Abstract**

KidID a database that will allow parents to store the vital information about their children that is always available and accessible anywhere there is internet. We are here to put your mind at ease knowing that if the worst happens it is a simple process to access important information and even to send it to the National Center for Missing and Exploited Children.

#### **Team members:**

Alejandro Cruz

Robert Dobbs

Taylor Gauthier

Jacob Seiz

#### **Sponsors**

*Sabrina Keathly*

Dr. David Keathly

## Information Technology

### ByteSized

#### **Abstract**

This project is about removing access barriers to labs. Safety cannot be emphasized enough both in the real world and laboratory environments. Providing all CENG students access to the various labs (e.g. ET machine shops, MEEN machine shop, MTSE labs, EE labs, common labs, etc.) further enhances their practical skills while simultaneously fostering more creativity. However, removing barriers to provide greater student access can only be successfully accomplished provided an appropriate safety training and tracking mechanism is in place. Students successfully completing a series of safety training not only qualifies them to obtain less restrictive access to the labs, it also can be used for developing their own personal/professional skills portfolio.

#### **Team members:**

Christian Betancourt

Miranda Eston

Jennifer Keller

Eric Phonasa

Ricky Romero

Satvir Singh

#### **Sponsors**

Dr. Derryberry



# ByteSized

## Information Technology

### Codenics

#### **Abstract**

PDX, Inc. currently provides software solutions for 20% of all prescriptions filled in the US. They provide support to 40 different customers and 8,000 pharmacies. A common problem that pharmacies run into are shortages in certain drugs. This can result in lost sales, unsatisfied patients, and excessive stock. Pharmaceutical Inventory management is currently in need of a powerful application that can provide a complete solution. The system we created is one that customers can view, transfer, and manage Real-Time On Hand inventory levels. The system will provide control back into the customers hands. This will result in increased sales, patient satisfaction, and reduce overstocking of drugs.

#### **Team members:**

Michael Hinderman

Jimmy Perez

Andrew anstaett

Garren Wilson

#### **Sponsors**

*PDX* Aaron Howard

keathly

#### **Acknowledgements:**

Bhakti Bhore and Mendy Riddle for their outstanding help in the development process