



Purdue Chapter
Association for Computing Machinery

President: Logan Gore

What is ACM?

A collection of groups focused on fields in computing

- Game Development
- Artificial Intelligence
- Robotics
- Etc...

Host Special Events

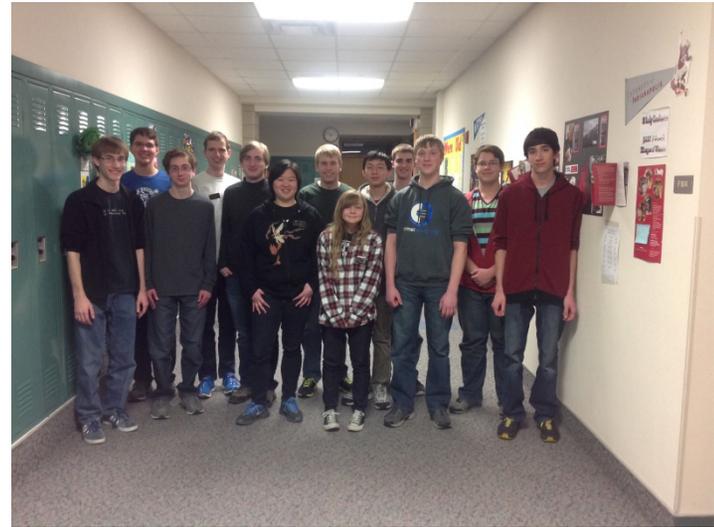
- Company Tech Talks
- Help Sessions
- Student led Talks
- Programming Competitions
- Hackathons



High School Coding Competition

Practice Competition in Carmel

- Ten students competed
- Three hour competition
- They all wanted to try again!



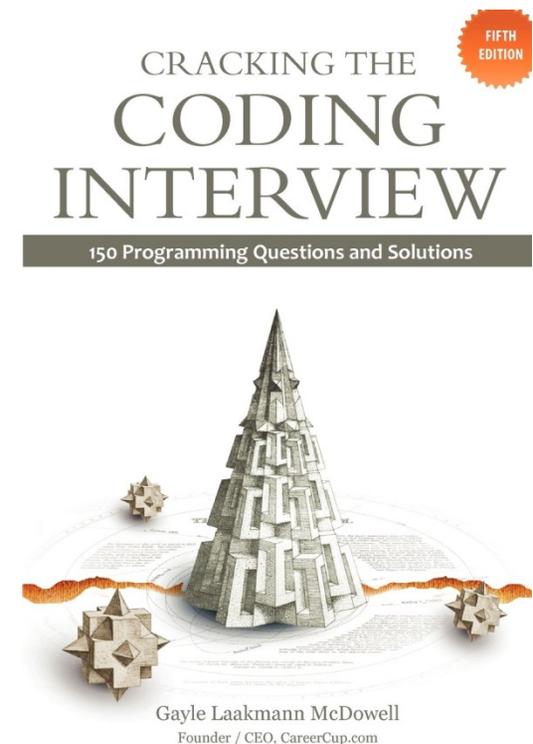
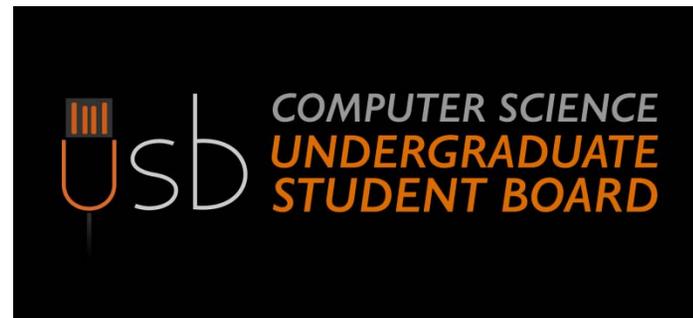
Fall Competition

- November 1st
- Sponsored by ExactTarget
- Students all over Indiana
- Teams of two



Mock Interview Night

- Sponsored by Qualcomm
- Giving away Cracking the Coding Interview
- Partnering with USB
- 50 – 75 students
- 30 minute technical interview
- Student interviewers

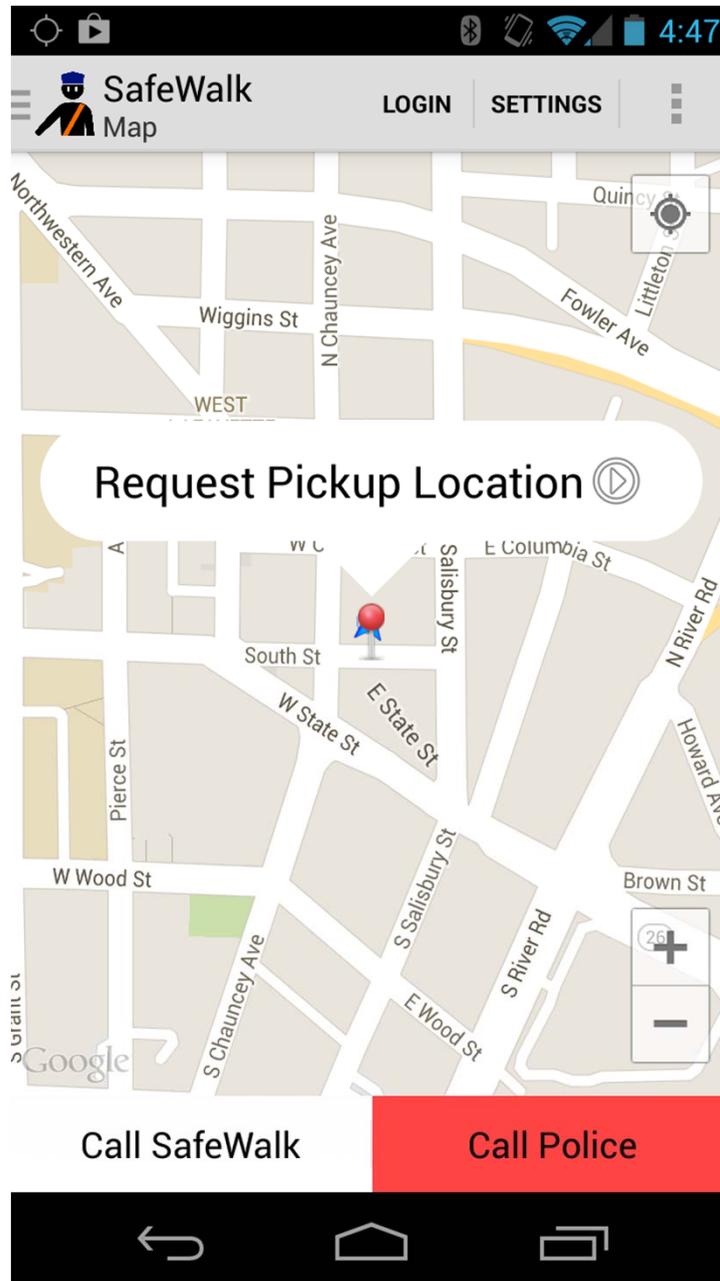




Applied Computer Science

Eric Templin

SafeWalk

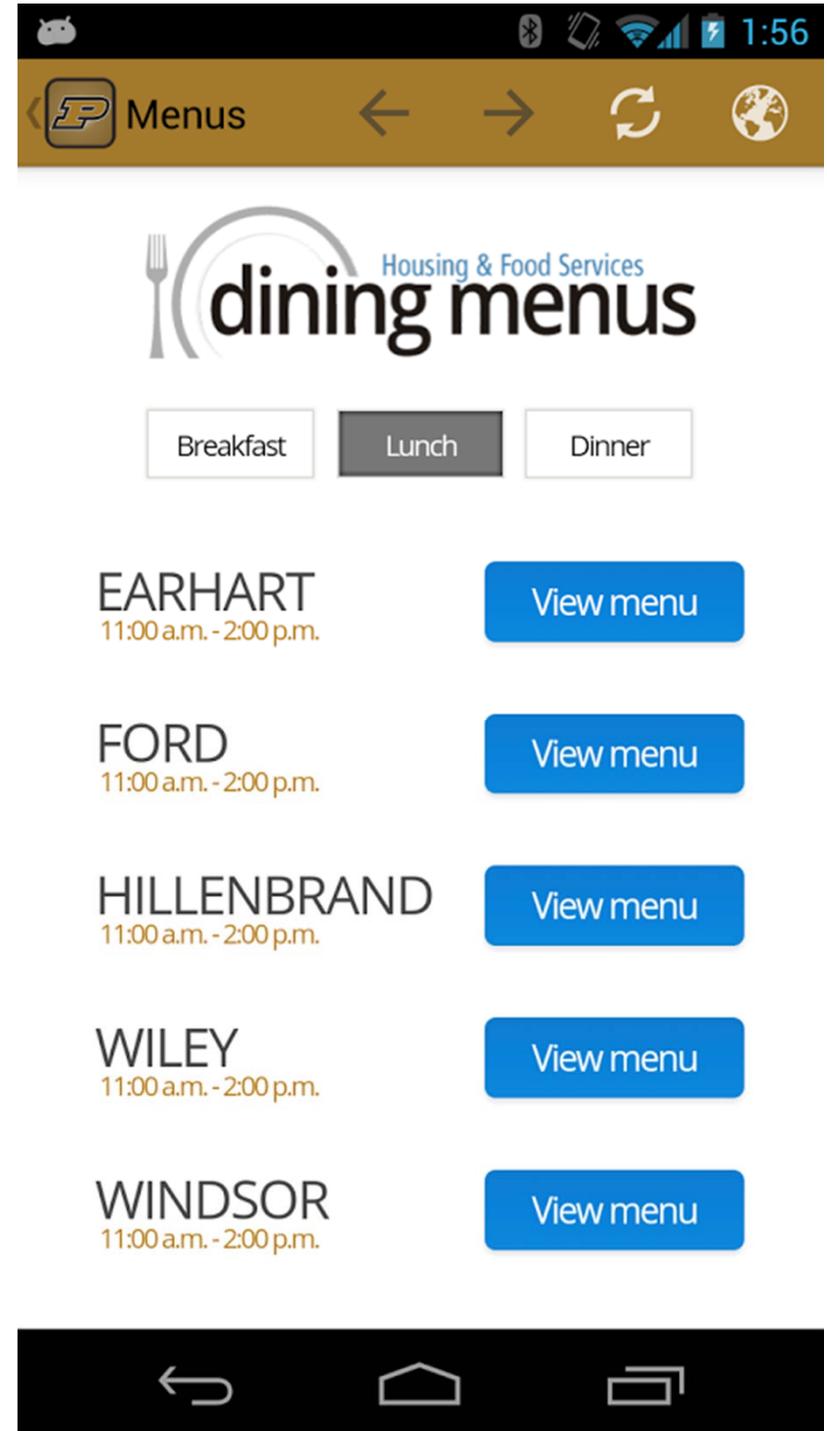
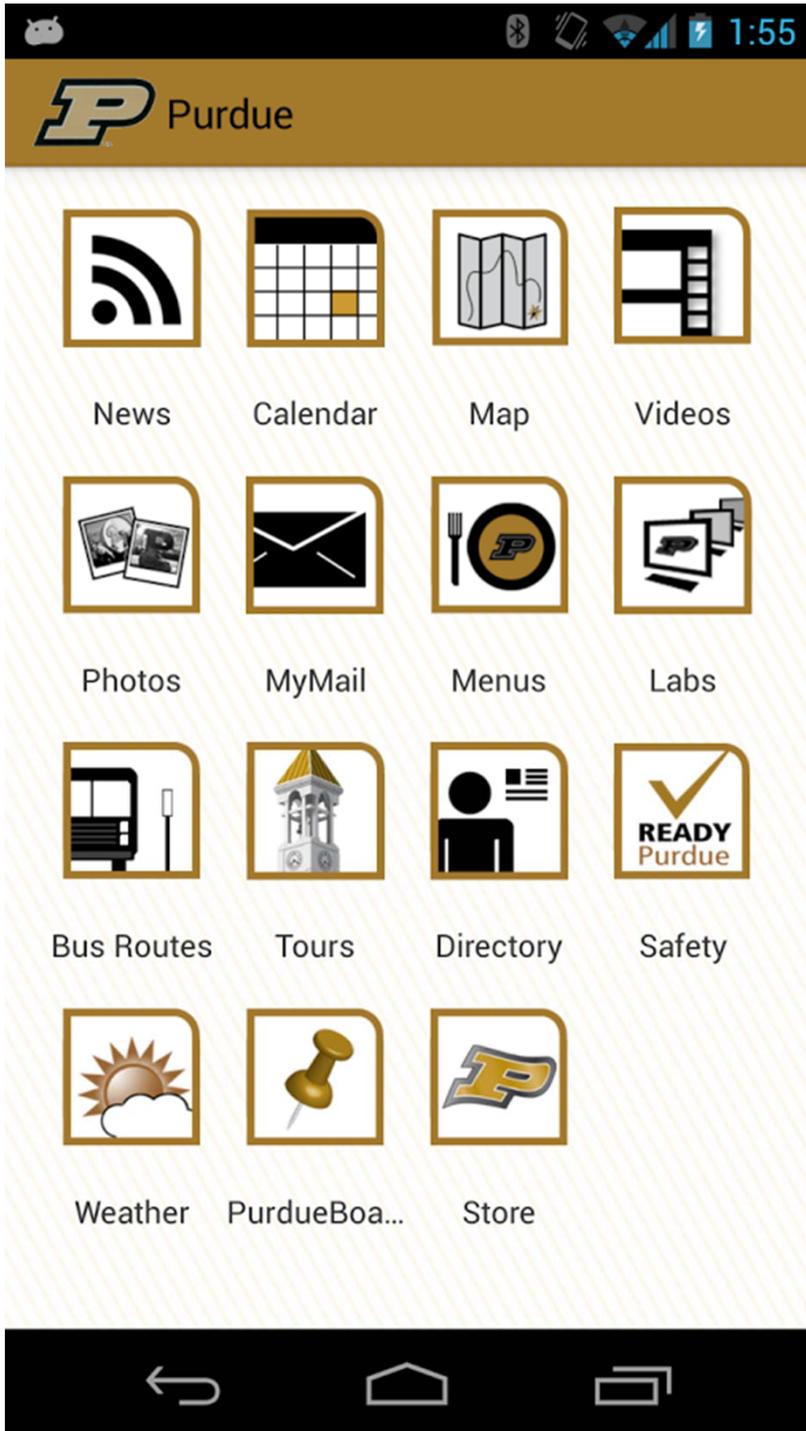


Purdue App

The image shows the Google Play Store page for the 'Purdue' app. At the top, the Google Play logo and search bar are visible. The app's icon, a stylized 'P' in a brown square, is prominently displayed. The app title 'Purdue' is followed by the developer 'Purdue University' and the release date 'August 25, 2014'. The category is listed as 'Education Education'. There are 'Install' and 'Add to Wishlist' buttons. A compatibility message states 'This app is compatible with your device.' Below this, there is a star rating of 4.5 out of 5 based on 9 reviews, and a 'g+1 +3 Recommend this on Google' button.

The bottom section of the image displays four preview images of the app's interface:

- Home Screen:** A grid of icons for various services including News, Calendar, Map, Videos, Photos, MyMail, Menus, Labs, Bus Routes, Tours, Directory, and Safety. A 'READY Purdue' badge is also present.
- Dining Menus:** A screen titled 'dining menus' with tabs for 'Breakfast', 'Lunch', and 'Dinner'. It lists three dining locations: EARHART (11:00am - 2:00pm), FORD (11:00am - 2:00pm), and HILLENBRAND (11:00am - 2:00pm), each with a 'View menu' button. A 'WII FV' link is also visible at the bottom.
- Map and Building Information:** A screen titled 'Map and building information' showing a map of the Purdue campus with various buildings labeled.
- Bus Routes:** A screen titled 'Bus Routes' showing a map with bus routes and a 'Double' button.



This Year

- Provide tutorials on iOS and Android app development.
- Continue adding features and maintaining the Purdue app.
- Continue work on SafeWalk on iOS and Android and release by the end of the spring 2015 semester.
- GitHub: <https://github.com/Purdue-ACM-SigApp>

SIGART

Artificial Intelligence

SPECIAL INTEREST GROUP FOR
ARTIFICIAL INTELLIGENCE

FOCUS AND PURPOSE

Team-based projects

- Complement coursework
- Collaborate and practice project management

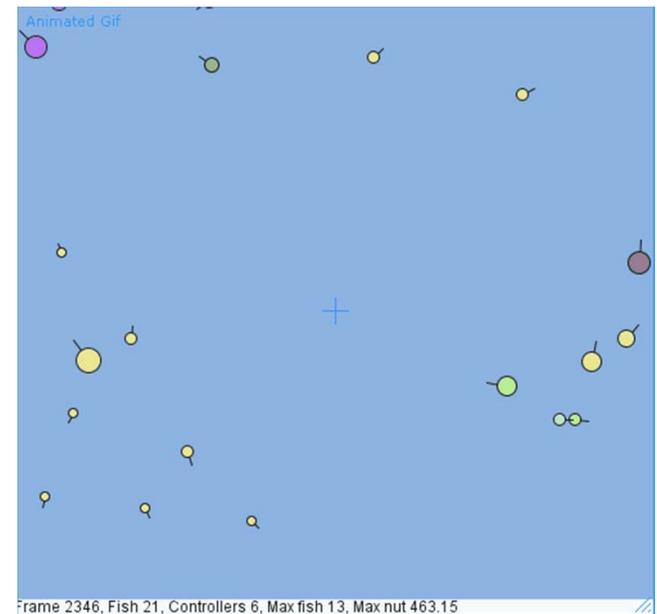
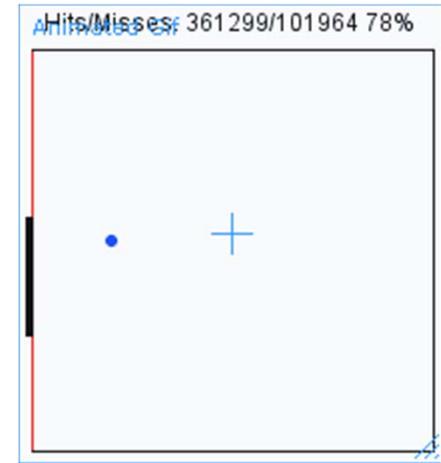
Discuss current technologies and implications of AI

Work on interesting and unsolved problems

PROJECTS

Past

- Single-player pong
- Competitive team-based fish sandbox
- Shredded document reconstruction



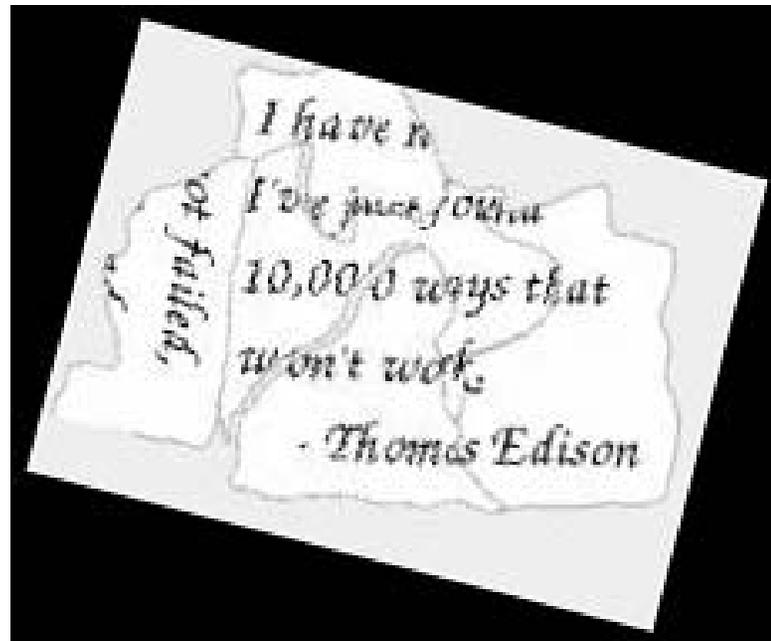
DOCUMENT RECONSTRUCTION

Search space optimization

Background subtraction

Blob detection

Curvature, shuffle, edge, and shoelace solvers



THIS SEMESTER

- Robocode



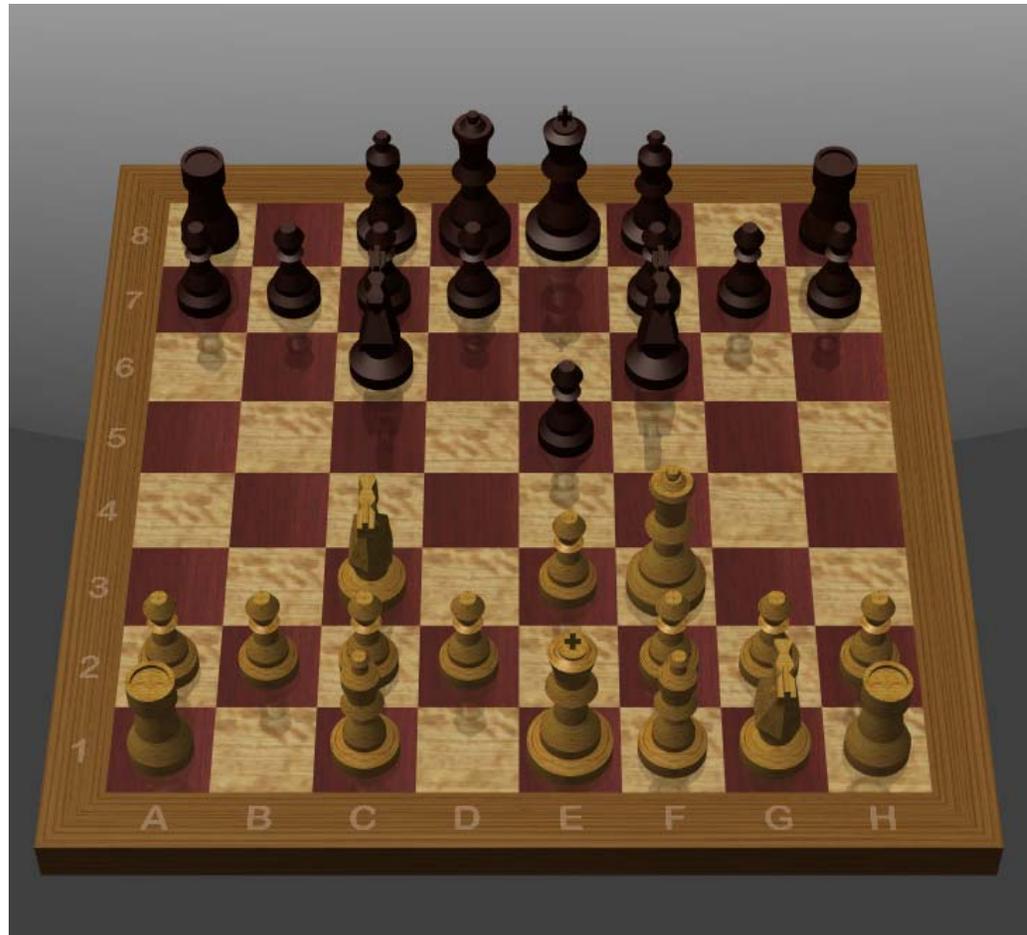
THIS SEMESTER

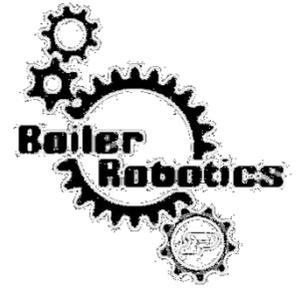
- **Winter Bells**



THIS SEMESTER

- Chess



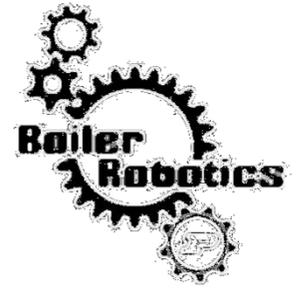


ACM Special Interest Group in Robotics

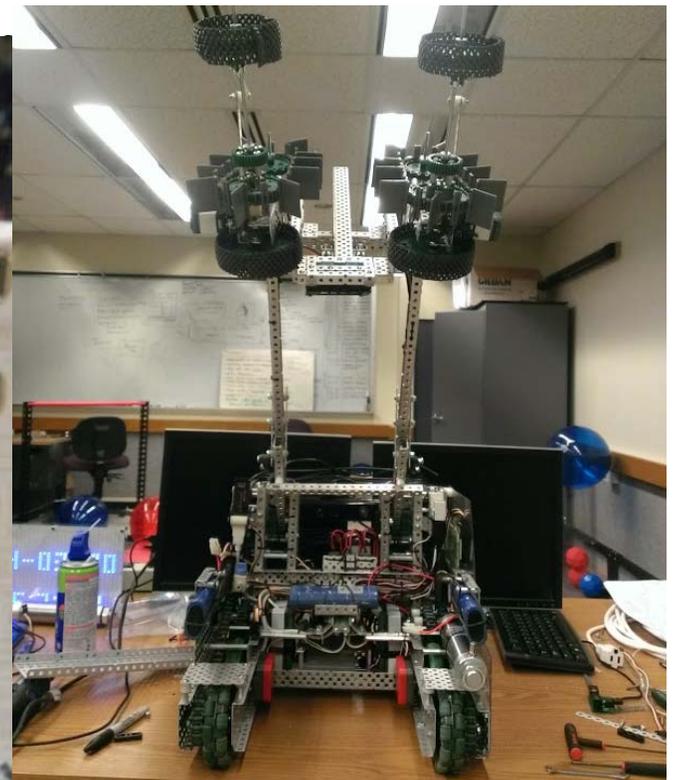
Javid Habibi
jhabibi@purdue.edu

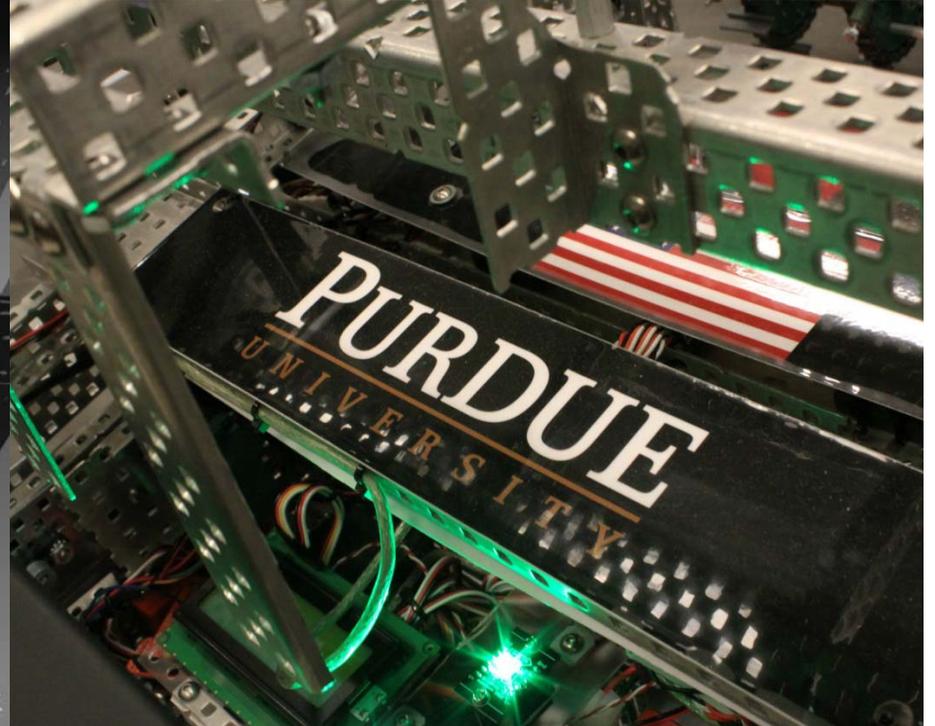
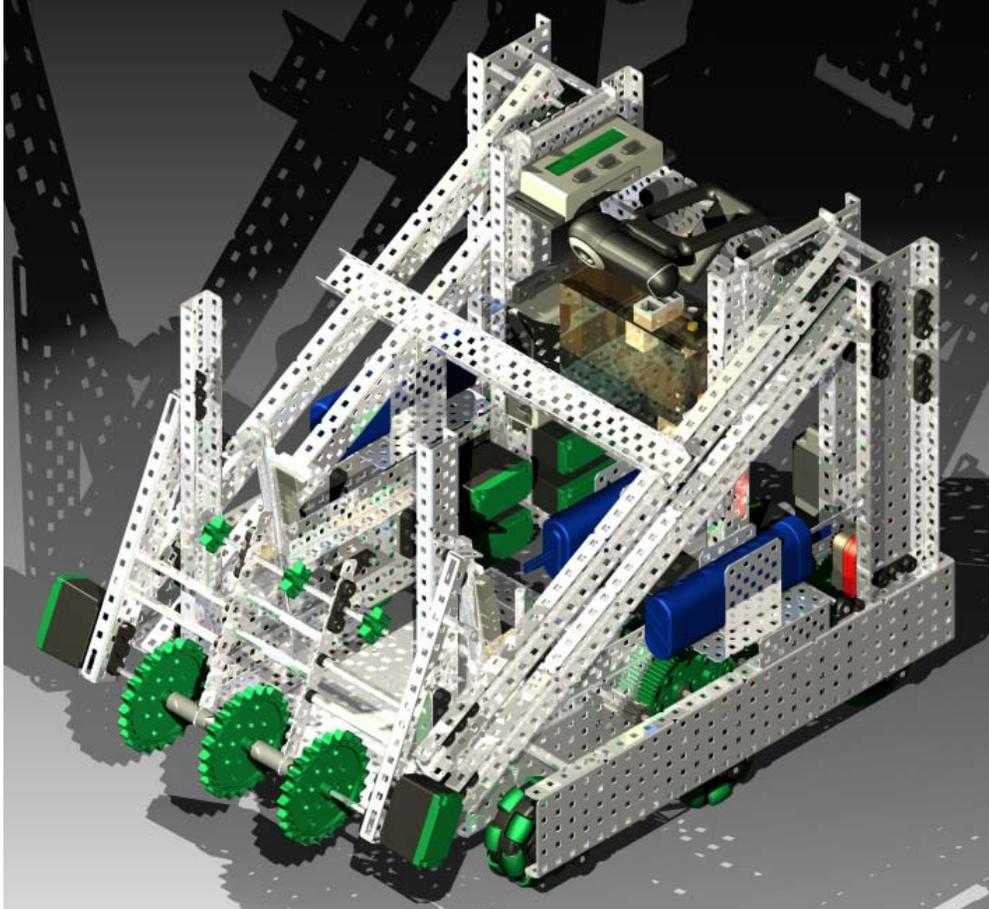
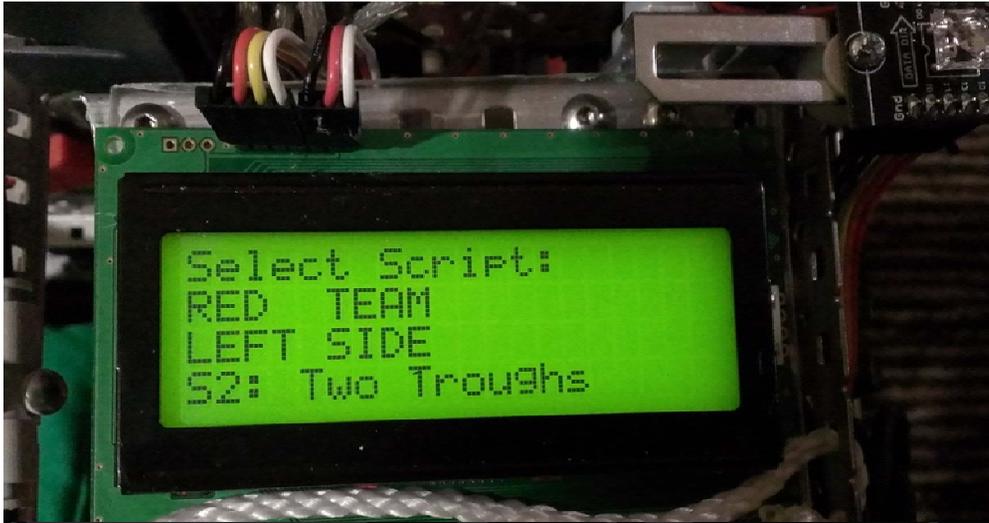
PURDUE
UNIVERSITY

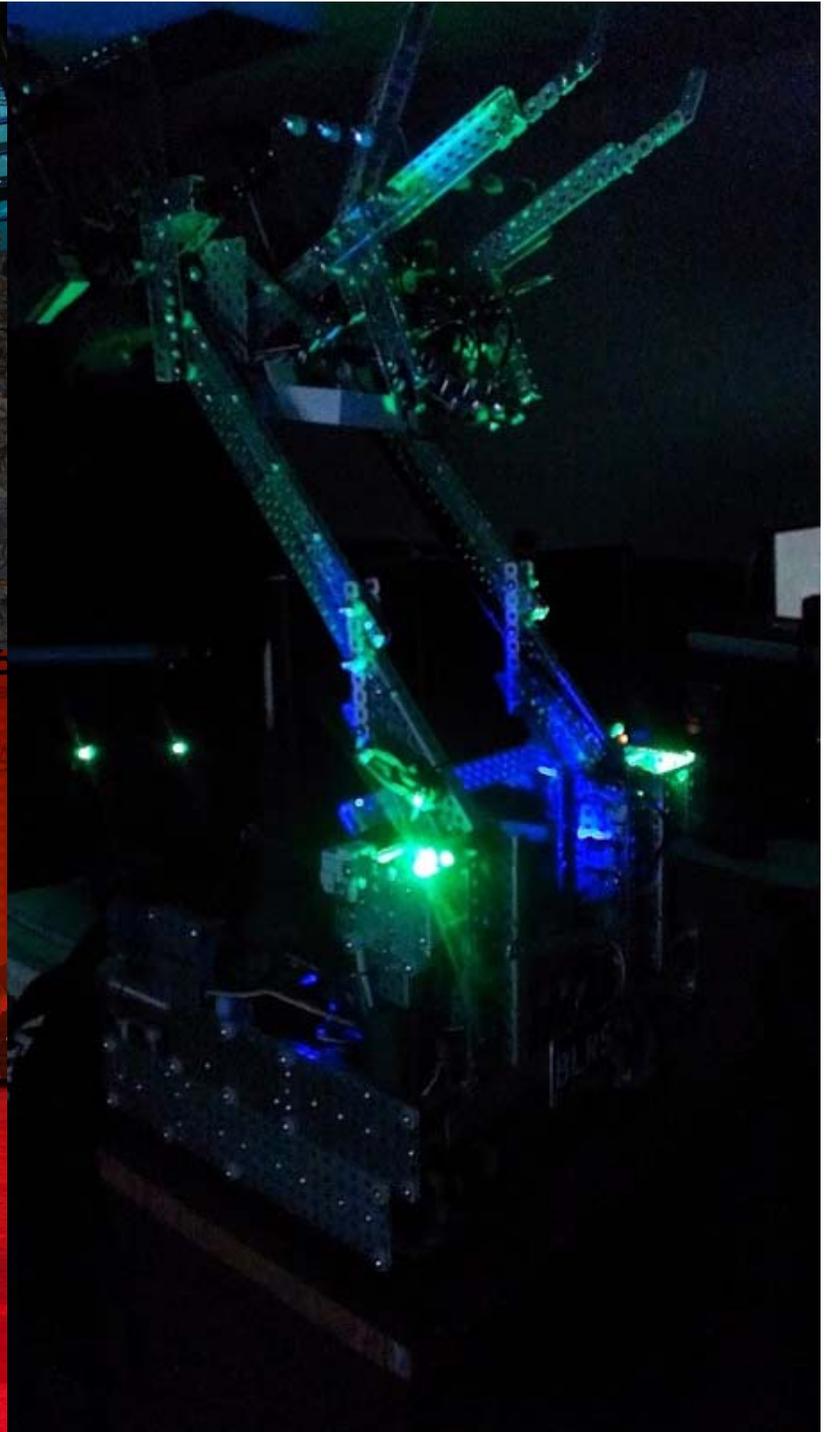
Who are we?



- One of many different Special Interest Groups (SIGs) within ACM
- Competitive Collegiate level robotics team





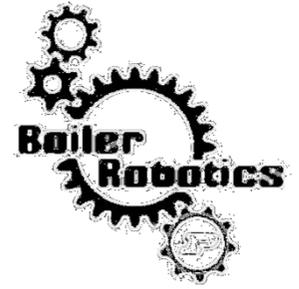


Past Accomplishments

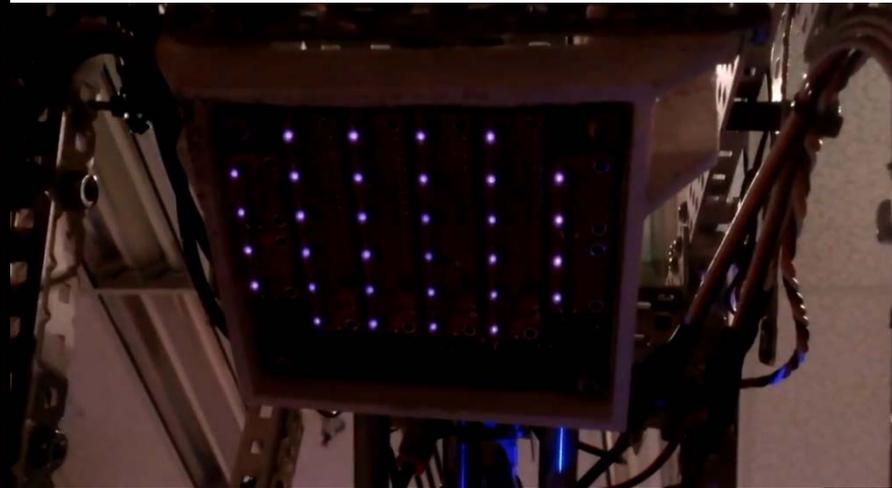
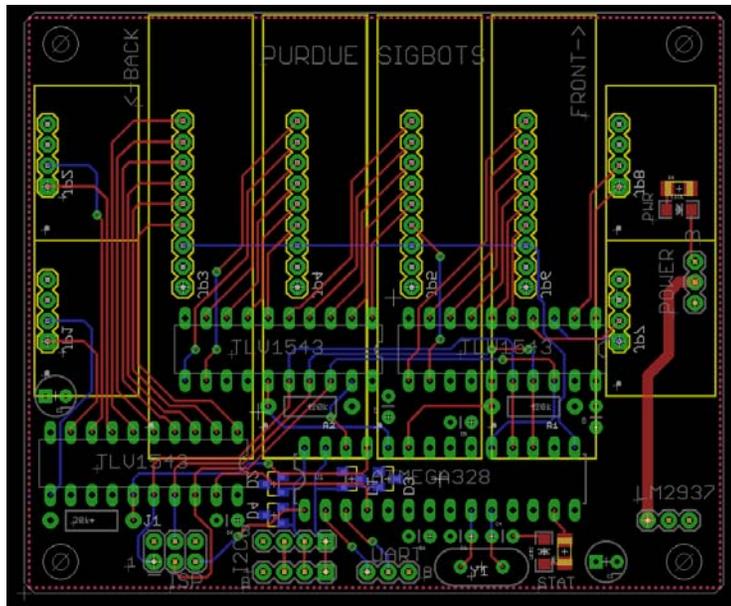
- Vex Robotics World Championship
 - 2nd place in programming
 - Innovation Award (2013 & 2014)
- Purdue Vex U Fall Challenge
 - Tournament Champions



Past Accomplishments

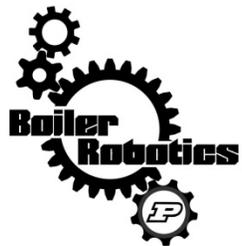
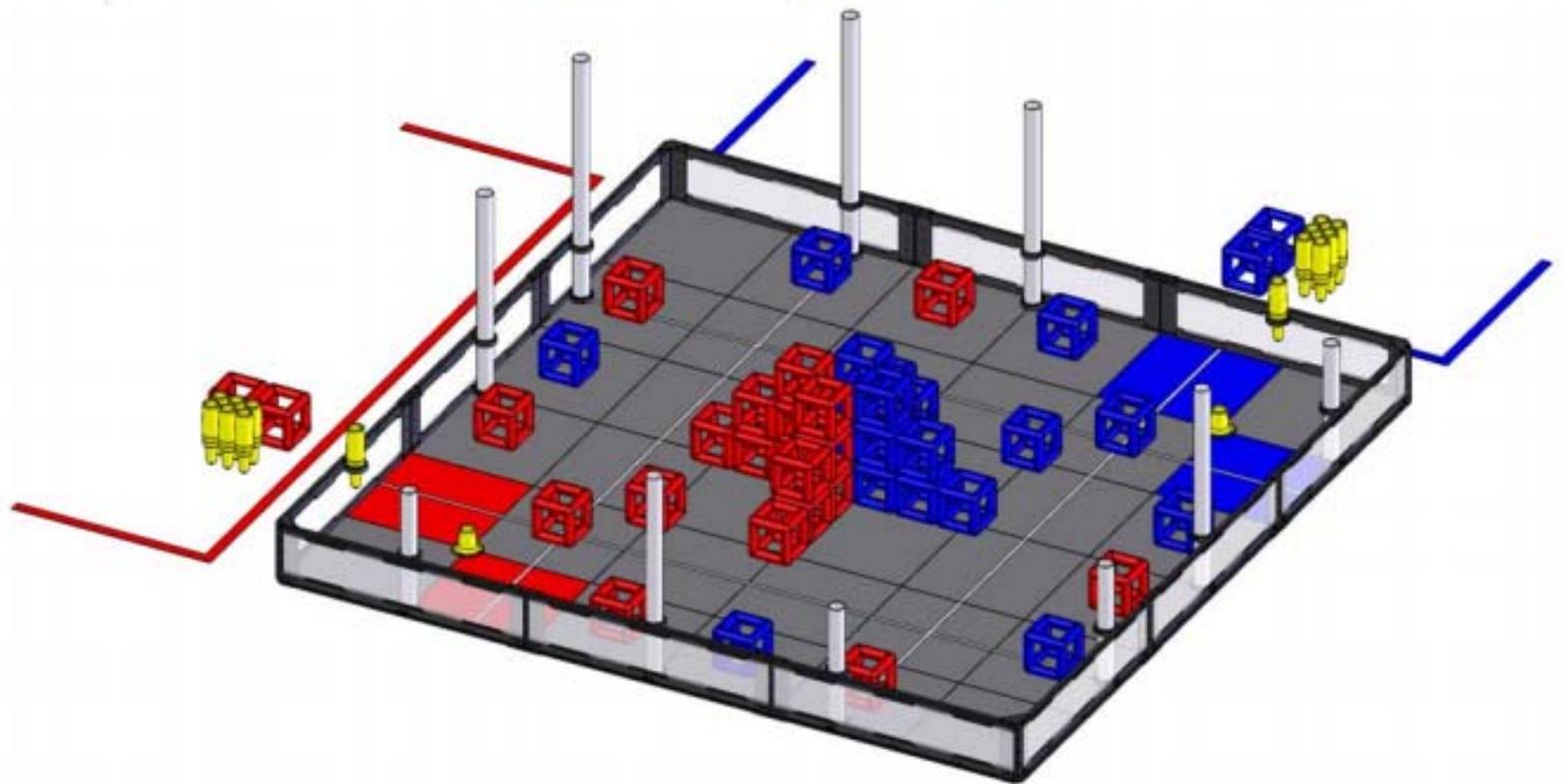


- Reflectance & Analog Data Interpretation Unified Sensor (R.A.D.I.U.S.)
 - Utilizes 32 infrared reflectance sensors
 - Preprocesses all raw data on the sensor and feeds PID values to the primary microcontroller
 - Allows robots to track lines at any angle at maximum speed



Where do I come in?

New Game...



Meetings

- Software
Tuesdays 7:00pm
HAAS 151
- Electronics
Wednesdays 7:00pm
HAAS 151
- Mechanics
Thursdays 7:00pm
HAAS 151
- Everyone
Sundays 2:00pm
HAAS 151

President: Javid Habibi
jhabibi@purdue.edu

Co-Vice President: Wes DeWitt
dewittw@purdue.edu

Check our website for updates!
<http://www.purduesigbots.com>

Co-Vice President: Jamsheed
Habibi
Jamsheed.habibi@gmail.com



High Performance Computing

Kurt Kroeger

sighpc High Performance Computing

- HPC uses supercomputers to solve advanced computational problems
- Focused on distributed work that cannot be done by one machine
- Purdue currently has the 24th and 176th fastest supercomputers in the world





High Performance Computing

SIGHPC's mission at Purdue is to help raise awareness of the profession to undergrads, and to help ensure a rich and rewarding experience for students interested in the field via participation in the Student Cluster Challenge.

Student Cluster Challenge

- Any hardware fitting within 3kW power limit
- Given multiple apps and datasets
- High LINPACK + Most Datasets = Winner





High Performance Computing

What are we looking for?

- C (Compiling, Flags, Make)
- Systems Administration
- Driven
- Passport

sighpc High Performance Computing





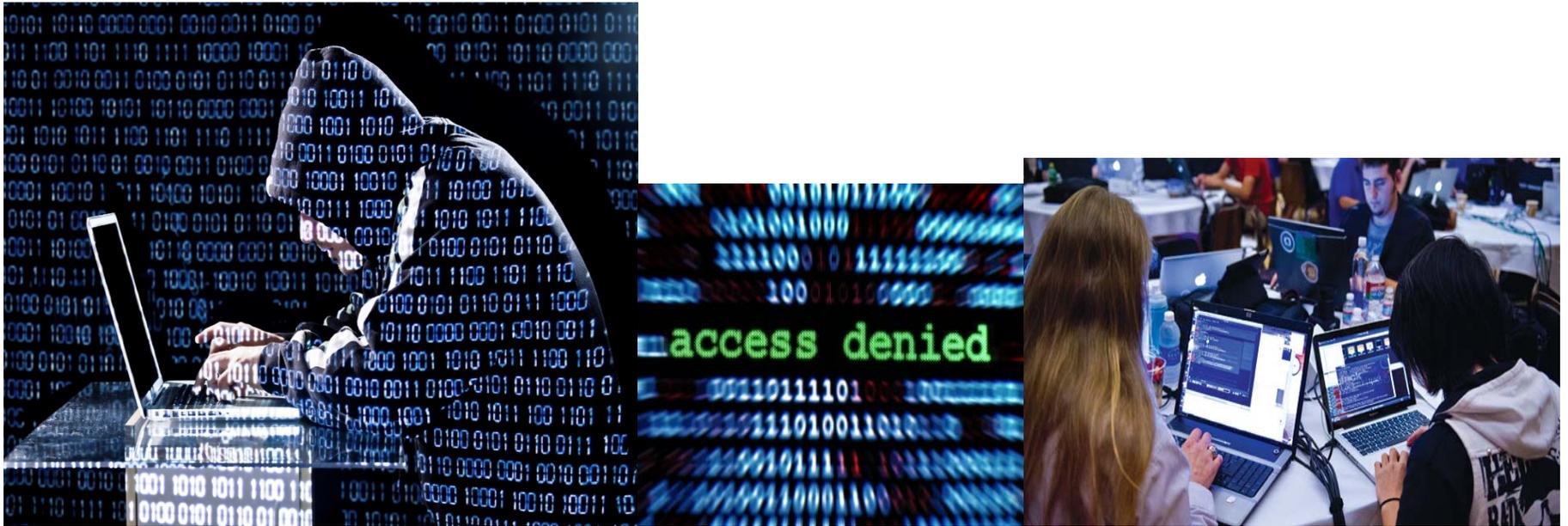
High Performance Computing

Contact me at **kkroege@purdue.edu**



What's SIGSAC?

Cool Security Stuff



Partners

- CTF –
b01lers
- Cyber
Forensics
- Bitcoin

PURDUE
CYBER FORENSICS



b01lers

Events

- Corporate Partner Talks
- CTF Challenges
- Topics in Cyber Security
- Member driven projects



⁺siggd

ACM Special Interest Group on Game Development

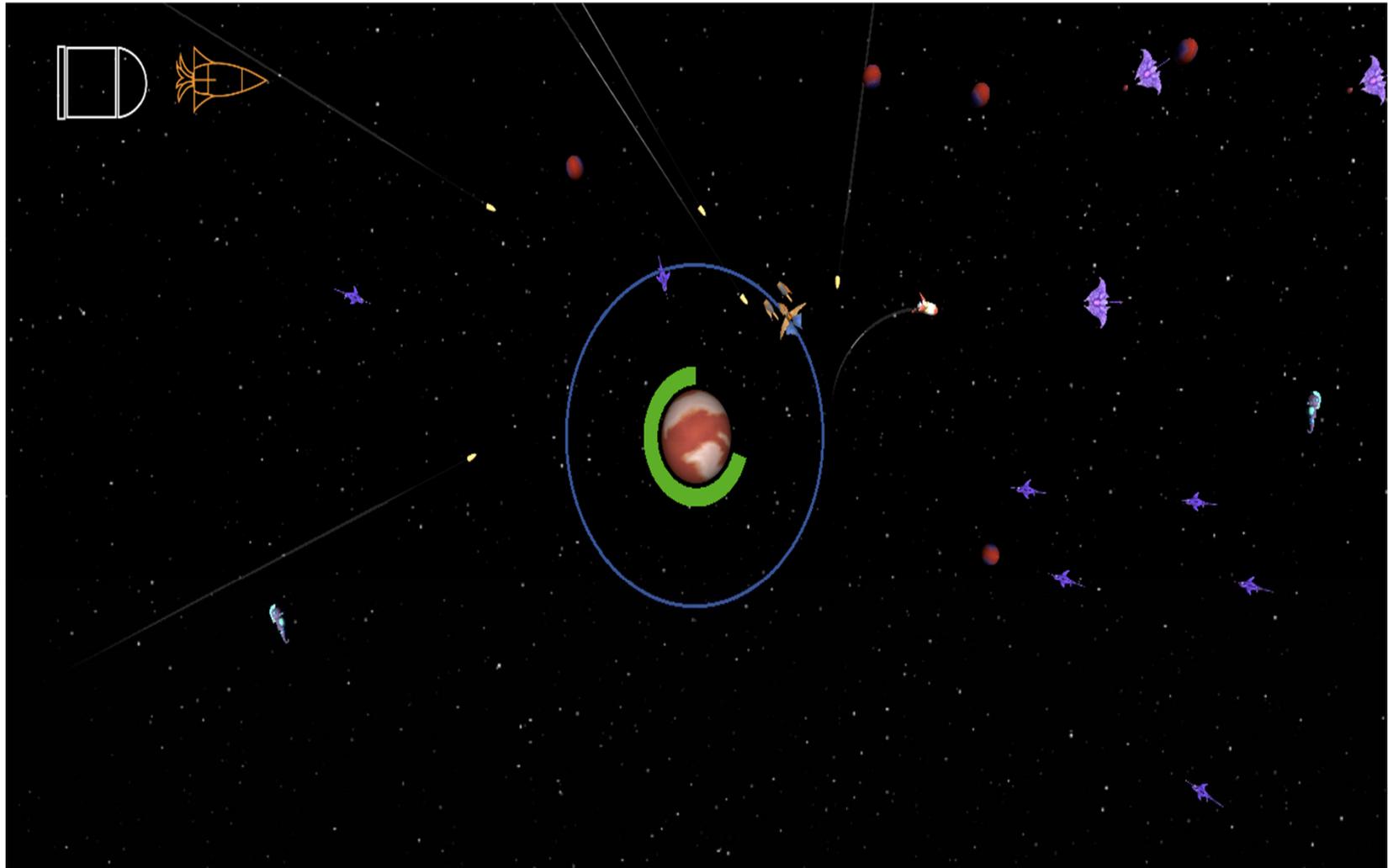
Lee Anne Opfer, President

About Us

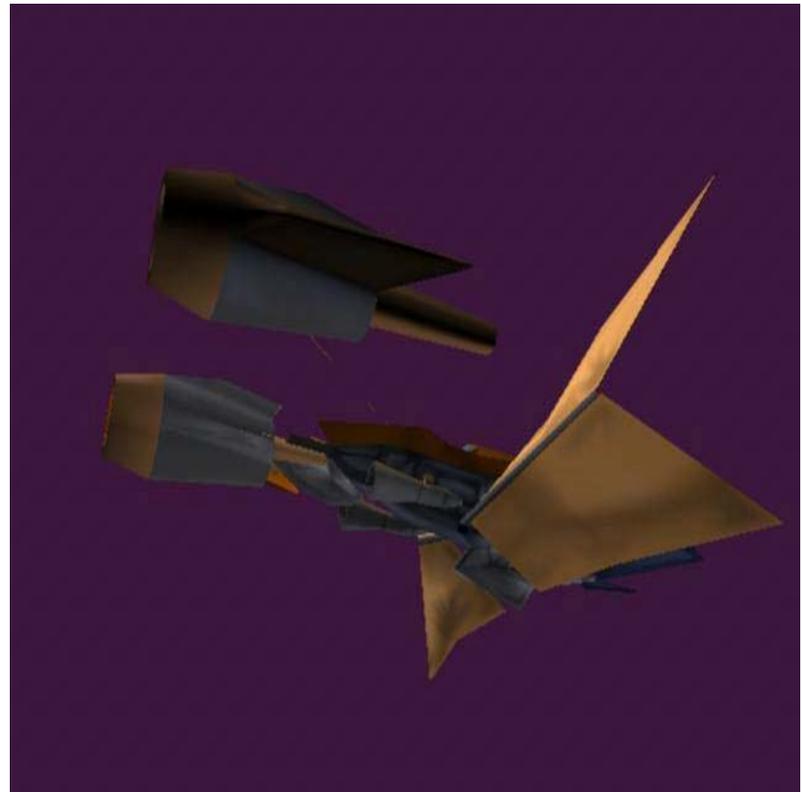
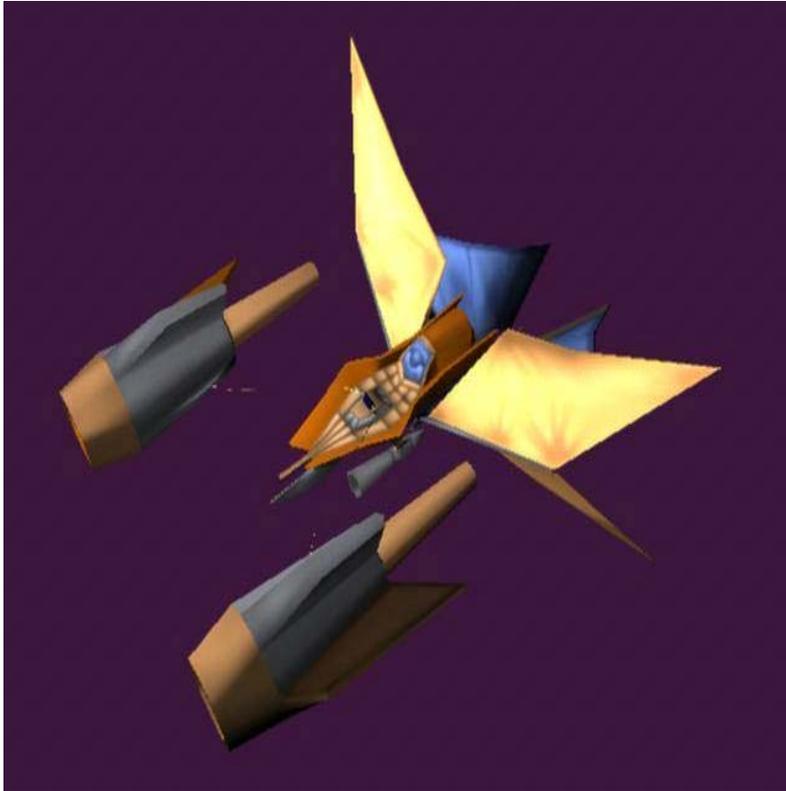
- Founded in Fall 2011
- Multidisciplinary team



20,000 Leagues Under the Sea



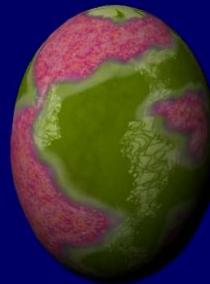
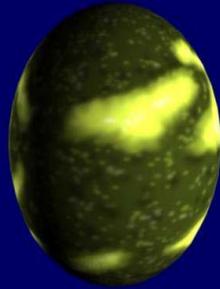
Player



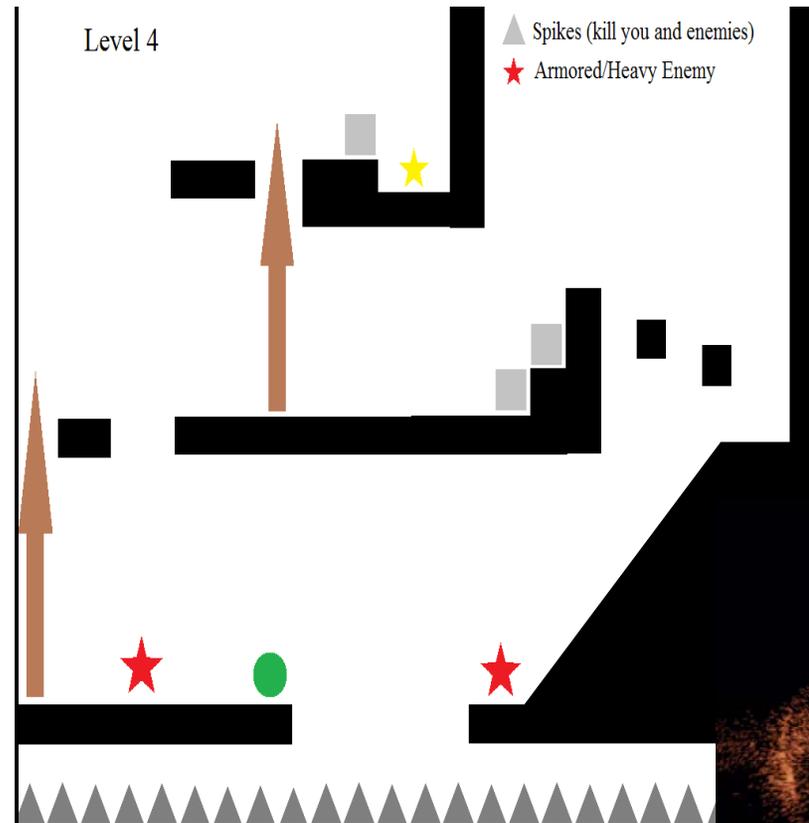
Enemies



Planets



Player As Platform



For the Future



Contact Information

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- Like us on Facebook

