

K-12 OUTREACH COMPUTER SCIENCE

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K-12 OUTREACH COORDINATOR

September 16th, 2014

WHAT IS OUTREACH?

PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE

- Organized effort to influence the conversation about computer science education
- Opportunity to engage in teacher development and support
- Focus on inspiring K-12 students to develop their interest in computing, problem solving, and technology
- Ability to expand the potential recruiting base for Purdue University

MAJOR CHALLENGES

PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE

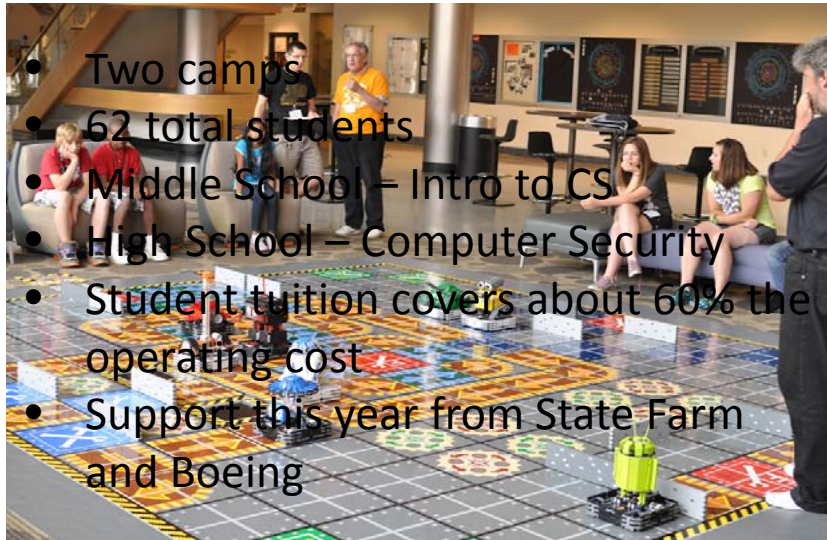


- Improving the understanding of what computer science is
- Finding the right context for computer science in K-12 curriculum
- Defeating the stereotypes that negatively affect the perception of computer scientists
- Developing opportunities for meaningful interventions

ADVENTURES IN CS CAMP 2014

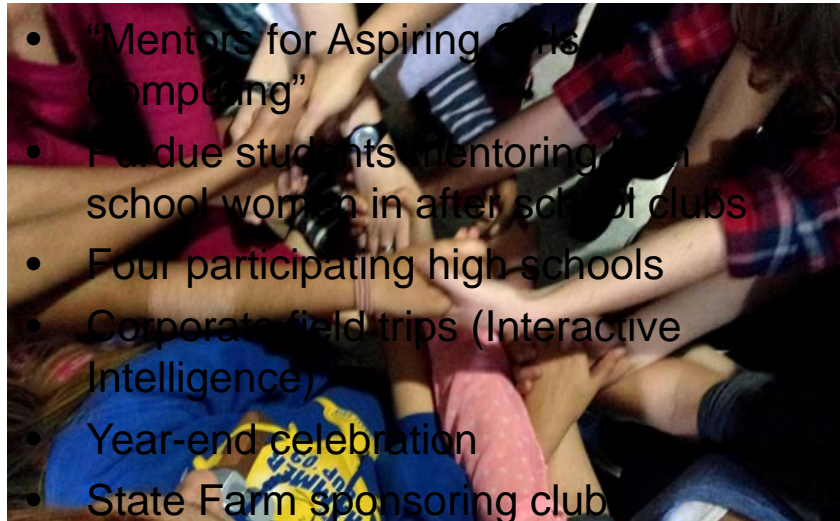
PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE

- Two camps
- 62 total students
- Middle School – Intro to CS
- High School – Computer Security
- Student tuition covers about 60% the operating cost
- Support this year from State Farm and Boeing



MAGIC MENTORING

PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE



- “Mentors for Aspiring Girls in Computing”
- Purdue students mentoring high school women in after school clubs
- Four participating high schools
- Corporate field trips (Interactive Intelligence)
- Year-end celebration
- State Farm sponsoring club



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NCWIT ASPIRATIONS AWARD

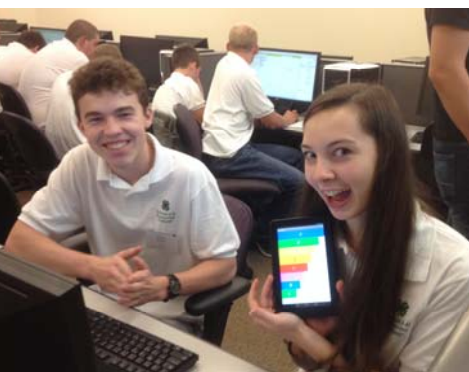
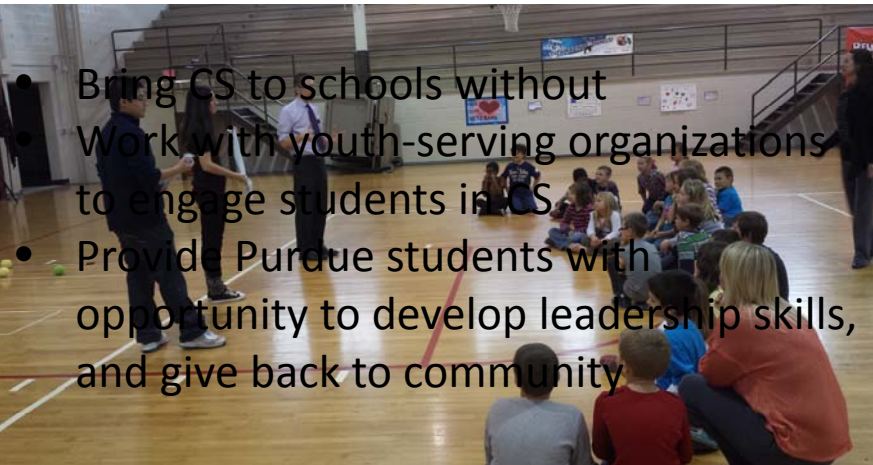
PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE

- Annual award given to 20 young women in the state of Indiana
- Goal is to encourage female participation in computer science related career paths
- Need small contributions in order to improve the prize offerings and to sponsor the awards ceremony
- Contact: Maureen Biggers (biggersm@indiana.edu)



REACH OUT FOR COMPUTER SCIENCE

PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE



CS TEACHER WORKSHOPS

PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE



- IBEA Conference CS Track
- Provide for visiting instructors
- Travel costs for teachers
- Support for CSTA which in turn supports Indiana's CS teacher population



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LAST REQUEST...

PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE



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QUESTIONS?

PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE



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