K-12 OUTREACH PROGRAMS

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ADVENTURES IN CS CAMP 2014

PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE

• Five day summer camp
• Targets middle school and high school aged students with no prior experience with computer science
• Utilizes educational software tools such as Alice, Pico Crickets and App Inventor
• Will introduce students to professional languages and tools such as Python, Processing with Arduino, and GitHub
Student group that engages in K-12 outreach
Hosted as a 1-credit college course
Provides Purdue students with an opportunity to:
  - mentor K-12 students
  - explore educational pathways
  - improve outreach offerings
WOMEN IN CS MENTORSHIP PROGRAM

PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE

- Mentorship program for high school girls in technology
- University CS students and volunteers from industry will meet weekly to mentor high school girls
- Each semester provides a focus on one major CS concept:
  - programming
  - app development
  - web design
  - robotics
- Semester end event will celebrate the work done by students
- One corporate partner site visit per semester will allow young women to explore career pathways
OTHER PROGRAMS

PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE

• **Elementary STEM Workshop**
  • Summer 2014
  • Focus on getting computational thinking activities in K-5 classrooms
  • 25 Indiana teachers

• **CSTA website and summer institute**
  • Aiding CS teachers with curriculum
  • Connecting teachers in effort to improve professional practice

• **New Community School Tech Club**
  • Technology club for students in grades 4-7
  • Robotics with Finch
  • Programming with Scratch and Processing
  • Lafayette, IN

• **CS Ed Week**
  • Raising awareness of CS education
  • Will host one-day event featuring K-12 activities