CS4HS Workshop

JULY 23 – 24, 2012

FLORIDA INSTITUTE OF TECHNOLOGY

Goals

- Increase awareness and interest in CS education in high schools

- Help us gain a deeper understanding of the challenges of CS education in high schools

To help accomplish the goals

- **Tuesday morning and early afternoon**
  - Resources for teaching: materials, tools, competitions, community
- **Tuesday late afternoon**
  - Discussion on steps for offering/teaching CS

Computer Lab

- **Computer Lab in Quad 114**
  - Next building—go as a group
  - Activities on computers
  - Online evaluation form
  - Late morning
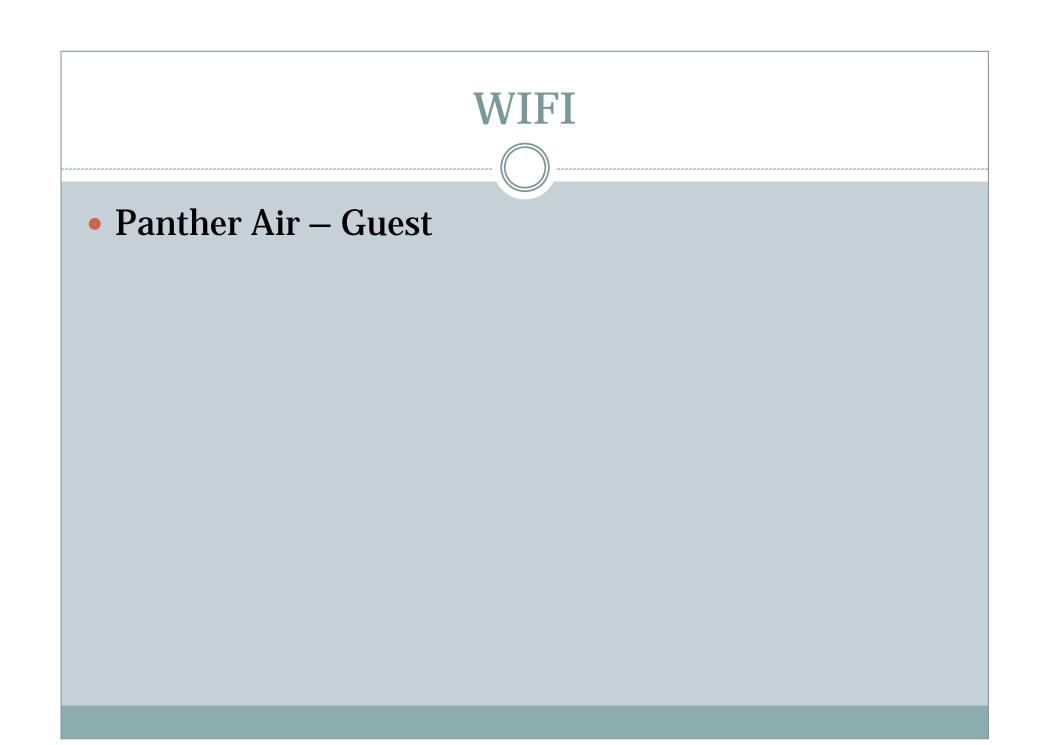 - Early afternoon—going to the lab after lunch

Logistics

- Lunch
  - Lunch tickets
  - Panther Dining Hall
    - We plan to seat together as a group to encourage interactions

- Stipends for Brevard school teachers/administrators
  - W9
  - Sign in

- In-service points in Brevard Public Schools (BPS)
  - Sign in--Evelyn Skrmetta (BPS Gifted & Accelerated Programs) has your names and arranged the paper work

WIFI

- Panther Air – Guest

Slides & Videos on Workshop Website

- **www.cs.fit.edu/~pkc/cs4hs**
  - Slides by the end of Wednesday
  - Videos probably in 1 week, if not by the end of the week

Acknowledgements

- We thank
  - Google for providing the funding for this workshop
  - the guest speakers for taking their time to prepare and share their thoughts
  - Raytheon for providing a tour
  - Brevard Public Schools for providing in-service points

From Obstacles To Solutions

- Qualified teachers
  - Certify retired engineers
  - Audit college courses (non-teaching periods); take online courses
- Resources: computers, funding
  - Corporations upgrade computers periodically—donation could be a tax write off
  - Students can bring laptops; work in groups
  - Alternative hardware could be TI calculators
- Administration support (low enrollment, dumping ground)
  - Offer the course every 2 years
  - A more challenging course could be less likely to become the dumping ground
- Full schedule
- Dumping ground
- Other electives
- Student interest
- Low enrollment
- Mapping—plan before writing programs
- Students Lack logical skills
- Preparation at an earlier age
- Parent understanding
- Age gap (teachers vs students)—programming phones
- School district lacks understanding of CS
- College Board curriculum not fun
- College Board workshop—lack of interesting projects

Next Steps—Action Items

- Each person

Questions?