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](http://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?