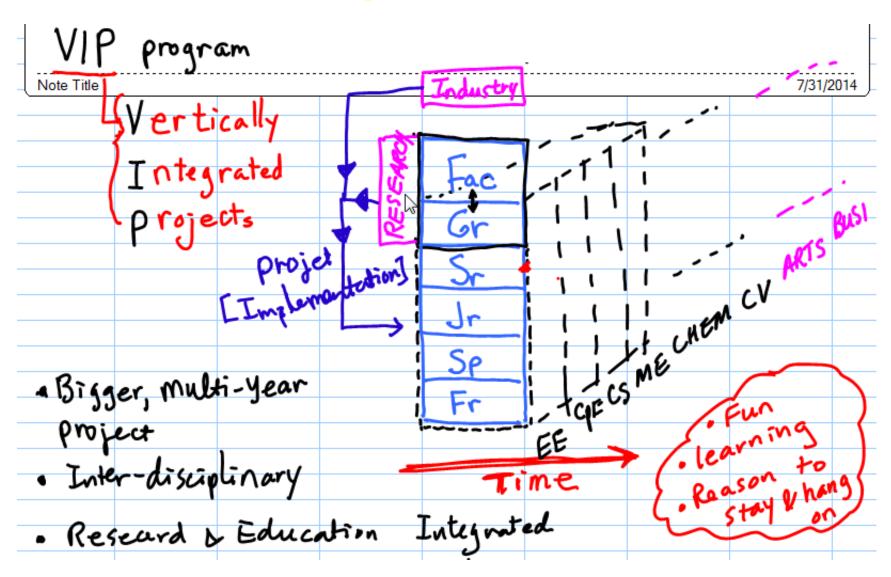
#### VIP and Teamwork

#### Department of Electrical and Computer Engineering Howard University

Dr. Charles Kim

#### www.MWFTR.com/SD.html

## **VIP Program - Essence**



Charles Kim - Howard University

# Key Elements of VIP

Long Term – not limited • by a summer or a semester **Enough time to master** ulletſime professional skills and to make technical contributions Large scale **Multidisciplinary Real Problem** solving

Context

۲

•

•

- Crossing boundaries: Faculty>Grad student>Sr>Jr
- Upward leadership/resp onsibility role

**Mentoring** 

# **VIP** Teams

- 3 Existing projects
  - Slate8
  - Intruder
  - UCC
- 4 Possible new projects
  - Ms. Inami Oakley: Golden Snitch
  - Dr. Marcus Alfred: HU Radio Telescope
  - Dr. Rubaai (with Mr. Carlton Blue): Flexible Inverter Today
  - Dr. Anderson: Prosthetic Arm: Today
- Team member Resources
  - 14 ECE Students
  - 20+ EGPP students
  - X former team members of existing teams
  - Y new recruits









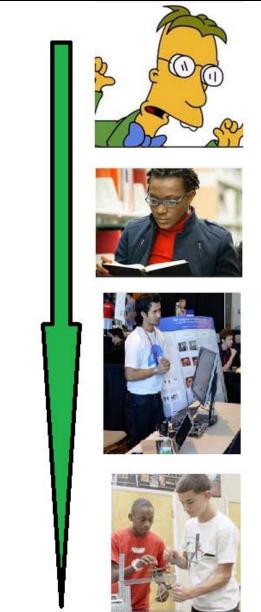
#### VIP Teams – Mentoring & Leadership

Leadership

ŏ

Vertical Mentoring

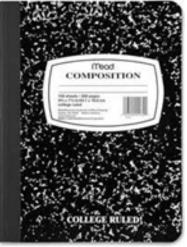
- Faculty Advisor
- A graduate student
- Senior Students --- Leadership role
- Underclass students
- Multidisciplinary



# VIP Team Meetings and Activities

#### • Weekly meeting

- Tasks are defined
- Each task assigned
- Each task performed individually or in sub-groups
- Project Note (Each participant):
  - Write every activities: search. Research, findings, designs, etc
  - Grading point --- Composition note
- Team webpage



# Schedule and Tasks

- Team Formation
  - Number of ECE Senior students in a team: 2
  - Each Team will have 3 4 EGPP students
  - Each team recruits other students (especially <u>former</u> <u>underclass students</u>)
  - A faculty advisor (and a graduate student) will be introduced
- W September 16
  - Submit 3 choices
- Week of Sept 21 26: First Team Meeting
  - Contact former team members for info
  - Ask for project binder
  - Ask for parts, components, codes, etc

### **Teamwork and Leadership**



• This is specifically for Senior Students

Charles Kim – Howard University

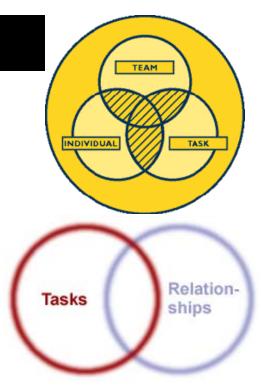
#### Team

- Team
  - A special kind of group
  - Deliberately formed to commit to a purpose
  - "<u>A team is a small number of people with</u> <u>complementary skills who are committed to a</u> <u>common purpose, set of performance goals, and</u> <u>approach for which they hold themselves mutually</u> <u>accountable</u>" --- Katzenbach & Smith
    - Small group
    - Complementary skills
    - Common Purpose
    - Mutual Accountability



### More than just tasks

- Effective Team Output:
  - "task productivity" & "relationship morale"
- Tasks:
  - Directed toward reaching goals
  - Focus on problem solving and decision-making
  - Elements of effective task accomplishment
    - Seeking Information
    - Sharing Information
    - Walking the talks
    - Bringing results to meetings
- Relationship:
  - Building Morale through investment in interpersonal attributes of motivation, confidence, group dynamics
  - Elements of effective relationship and high team morale
    - Listening
    - Seeking agreement
    - Encouraging
    - Compromising
- Key to Success
  - Balance between Task and Relationship





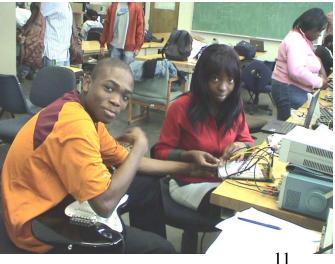
#### Recap: Team is

• Team is



- Formed by Relationship among team members
- Guided by a vision and set of common goals
- Functioned by roles of members to accomplish tasks
- Run by following agreed-upon rules and procedures





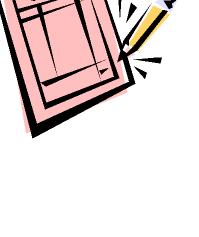
Charles Kim – Howard University

## **Team Contract**

- Goal
- Expectations
- Rules and Policies
- Commitment
- We will make team contracts later – after teams are formed

Team Contract for Sector Origin Charm Experiment of Derivation and Computer Registering However Information						
Tana Kana						
Vision Distances	Territor of the	e inter in				
Grad Datasana	The pole issue	f de vicina an				
http://		ndiau viā nga fil lava nd anadala, palatviņ drīm				
Protoslana and Publica Publica	Torinariyoda prysotian, ho bilar	in ad produce presigned dam, galiy d'ord, ad sadi	Rings ar tarfarna, Annaisettas, taŭ transferitas ("ponifiko-nal servalo			
Canarikansk Ly Mandaer	analysed Australia	minut that I are of the last in else	vie, and provident as sizial in the ly three areas and produces. Take I will refler the consequences of siz	instant" -		
	Piese.	Equator	Dete	_		
	New Y	Spake.	Dete	_		
	Plane	1 paint	Dete	—		
	Figure	E a calego	Date:	_		







### Team Contract: Goals and Expectations

- Goal Statement
  - Clear, measurable targets that indicates progress toward the purpose
- Expectation Statement
  - Team's expectation on team members in
    - Meeting attendance and on-time arrival
    - Activity participation
    - Communication
    - Productivity
    - Assigned task completion
    - Keep the deadline
    - Etc

### Team Contract: Rules and Policies

- Rules and Policies
  - Running of Meetings
    - Who runs the meeting?
    - Cell-phone policy
    - How team decisions and consensus will be reached
  - How meeting absenteeism and tardiness will be handled
    - Policies for missing one meeting or being late
    - Policies for contacting someone to contact
  - Expectations of quality works
    - How to handle late and incomplete work of a member?
    - How to reward team members who exceed expected performance
  - Relationship
    - What each member to bring to each meeting
    - Developing "can do" attitude
    - etc



## **Running Effective Meetings**

- Meeting
  - The main form of information exchange
  - Tasks to be identified and allocated
  - Status on assigned tasks reported
- Meeting Agendas and Minutes
  - Without agenda, meeting is not productive
  - Agenda contents:
    - Purpose
    - Topics
    - Desired outcomes
  - Meeting Minutes



### Meeting Etiquette

- Begin the meeting on time
- Review the agenda as the first activity of the meeting
- Focus discussion on facts (not on personal issues)
- Stay on track
- Close the meeting effectively
  - Summarize the decisions made and action items for each member
  - Set the agenda for next meeting
  - Evaluate how the meeting went

#### **Peer Evaluation – Rationale**

- Teamwork & Fairness
- Evaluation of each team member's strength and weakness in terms of Tasks and Relationships
- Each member fill out the form individually
- Submit the form individually via email (when required) – at the end of each semester
- The submitted evaluation forms and results are kept confidentially by the advisor and the instructor.
- But will be used in grading



#### **Peer Evaluation**

- For each item (we have 10 items) a team is given a sum of money ۲ allocated to \$500 per member.
- For each item, distribute the sum to each member according to his/her performance on the item
- The same scores for all members are not accepted nor counted.  $\bullet$
- P = [Total Amount of Money]/5000 ۲

Is responsible and accessible

Is enthusiastic about the project and energetic

Demonstrates effective leadership, keeps team

focused, and elevates the work of the entire team

2

3

4

5

б

8

9

10

	Write each member's LAST name below (including yours)			
Works cooperatively to complete team assignments				
Prepares for, arrives on time, and attends meetings				
Makes positive contributions to meetings				
Work is of high quality and completed on time				
Brings a creative spark to the team				
Supports and respects other members' efforts and				
opinions				
Is able to give and receive feedback effectively				

TOTAL

18

#### Peer Evaluation

#### By the way; Project Team Binder

- Record/Keep all your works
  - Individual works, drafts, emails,
  - Datasheets, ordering receipts, etc
  - Proposals (v1, v2, ...vn)
  - Meeting Minutes
  - Presentation
  - Design Requirements
  - Anything and everything the team did and produced
- Put them in to a Binder chronological order
- Submit the binder
- Reminder !!!!
  - Individual project note

