Vertically Integrated Projects (VIP)  
ECE 279, 379, 479

Introduction Session

Jan Allebach  
School of Electrical and Computer Engineering  
Purdue University  
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What are the goals of VIP?

- Provide undergraduate students an opportunity to work one-on-one with a faculty member and/or graduate student mentor
- Give undergraduate students exposure to faculty member’s research area
- Provide undergraduate students an opportunity to experience team-work
  - Collaboration
  - Mutual respect
  - Communication
  - Shared responsibility
  - Teaching each other
  - Leadership
- Allow undergraduate students to stretch their imagination and express their creativity
Typical elements of the VIP experience

- Weekly review meetings with the faculty advisor and/or graduate student mentor
- Weekly homework assignments to learn background for project during early part of semester
- Mixture of hardware and software experiences with real applications
- Each group gives a presentation on their project
  - What were the goals?
  - What did they accomplish?
  - How does it work?
- Poster session and call-out at mid-point of semester
- Final project presentations and review
  - What are the problems?
  - What do they plan to do next?
VIP Projects for Spring 2017

- Analysis of Code on Cloud as an Educational Service to Students
- Autonomous Aerial Vehicle
- Autonomous Land Vehicle (Crawler)
- Continuous Analysis of Many CAMeras
- Earth History Visualization
- Earth Remote Sensing with Signals of Opportunity
- Earthquake Damage Visualization
- EMC / Signal Integrity
- Imaging and Printing
- Intellectual Property
- Investigate and Develop Data Management Policy and Workflow
- SoCET
- Software Defined Radio
- Technologies for Neuroimaging
- Visual and Data Analytics
- Worldwide Observation of Human Behaviors
VIP Administrative Staff and Sponsors

- VIP Coordinators
  - Carla Zoltowski
  - Jan Allebach
  - Yung-Hsiang Lu

- VIP TAs
  - Ni Yan
  - Chun-Jung Tai
  - Alex Layton

- VIP Partners
  - DLS Electronics
  - Dzine Steps
  - Epiq Solutions
  - Hewlett Packard Enterprise
  - HP Labs – Palo Alto
  - Indiana University Maurer School of Law
  - International Commission on Stratigraphy
  - National Science Foundation
  - Poshmark
VIP Laboratory (MSEE 140)

- VIP Lab provides space and facilities for team discussion and collaboration.
- Lab Guidelines:
  - VIP group-work has the highest priority for use of space and computers.
  - VIP team meetings may require a quiet working environment at times
  - Please do not leave items occupying table space when you leave.
  - No food or drink are allowed.
VIP Hardware Laboratory (EE 238)

- VIP Hardware Lab provides space and facilities for hardware development
- Windows!
- Hardware!
Vertically Integrated Projects

Learn more about VIP:
- See intro slides from Fall 2016 semester.
- Check out the photo gallery of our poster section.
- Read about our current teams.
- Download Spring 2017 Course Syllabus, and Individual Evaluation Form.
- Check us out on Facebook: www.facebook.com/purduevip

Register for VIP
- Registration information for Spring 2017 is here.
- Check out the teams for Spring 2017 here.

Events:

Professional Development Opprotunities

Want to learn project management, leadership, communication, and other professional skills to be more effective in your VIP teams? Prof. Carla Zoltowski will be offering three professional development sessions. All are in EE 115 from 5:30 – 6:30 pm.
- Wednesday, January 18th: Project Management
- Wednesday, January 25th: Leadership
- Wednesday, February 1st: Managing Conflict and your Boss

Spring 2017 Overview

This semester’s overview/introduction will take place in EE 129 on Wednesday January 11 from 5:30 pm to 6:20 pm. All VIP students attend.
Join us on Facebook!

Vertically Integrated Projects (Purdue University)
Poster Session
VIP Requirements

- You MUST:
  - Turn in a **final report** (individual or team)
  - Submit a **poster** for the poster session (team)
  - Turn in your key at the end of the semester

- Picture Taking / Key Pick-up Hours (MSEE 140)
  - Tue 1:30 PM – 3:00 PM
  - Wed 9:30 AM – 11:00 AM
  - Thu 3:00 PM – 4:30 PM
Have a great semester!