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

Introduction Session

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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?
  - What are the problems?
  - What do they plan to do next?
- Poster session and call-out at mid-point of semester
- Final project presentations and review
VIP Projects for Spring 2016

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

- VIP Coordinators
  - Carla Zoltowski
  - Jan Allebach

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

- VIP Sponsors
  - Founder: HP
  - Patrons: Aruba, P&G, Motorola
  - Sponsors: NSF, NASA, Yelp, Cisco Systems, Intel, Microsoft, Precise Biometrics, Texas Instruments
  - Donors: Vertically Integrated Projects (VIP), Spring 2016
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:
- Check out our previous [poster sessions](#).
- Read about our current [teams](#).
- Check us out on Facebook: [www.facebook.com/purduevip](http://www.facebook.com/purduevip)

Register for VIP
Registration information for Spring 2016 is [here](#).

Events:
- Spring 2016 Poster Session
- TBD

If you have any questions, please contact us at [vip@acr.purdue.edu](mailto:vip@acr.purdue.edu).
For tips on how to register, [click here](#).
Join us on Facebook!

Vertically Integrated Projects (Purdue University)
Poster Session
VIP Requirements

- You MUST:
  - Get your individual picture taken in MSE140
  - 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 (MSE140)
  - Tue 1/19 2:30 PM – 3:30 PM
  - Wed 1/20 2:30 PM – 3:30 PM
  - Thu 1/21 10:30 AM – 11:30 AM
  - Fri 1/22 10:00 AM – 11:00 AM
Have a great semester!