

VIP Professional Development Plan – Fall 2025

Name: Nana Lee

Course (e.g. 27920): 47921

Team/Project: A-Camera

To support your success on your project and your team, and overall in your career and your life, you will create an individualized Professional Development Plan. Your plan is expected to include ten (10) Professional Development (PD) activities that can be completed throughout the semester. Three activities are mandatory: 1) “Welcome to VIP” lecture/presentation, 2) Conference Application, and 3) Conference Presentation (oral or poster). Typically, VIP students participate in the Purdue Undergraduate Research Conference through the Office of Undergraduate Research to complete the abstract and presentation requirements. However, your VIP team advisor/mentor may opt for you to participate in a different conference or dissemination to satisfy the requirement, which should be provided in place of the Purdue Undergraduate Fall Research Expo activities below.

The remaining seven activities are to be chosen by you with guidance from your mentor(s) to meet your interests and what would be most beneficial for your work on your VIP team.

The VIP PD Brightspace site hosts a variety of Professional Development videos and information on interactive workshops and live presentations that will be offered this semester. You should browse the materials and talk with your mentors during the few weeks of the semester to create your individual Professional Development (PD) Plan. You are welcome to include PD opportunities outside of what we have posted to satisfy your PD Plan goals. If your activity was more than 60 minutes, you may submit/use the activity for multiple PD activities (approximately 1 activity for each 60 minutes). The planned activities should be summarized in the table below, and this document should be submitted to Brightspace by Friday, September 12th. Note that you may update your plan as needed during the semester without resubmitting to Brightspace.

PD Questions:

What are the overall goals/objectives of the team you are on?

The goal for our team this semester is to reimplement the study ‘Focal Split: Untethered Snapshot Depth from Differential Defocus’ (CVPR 2025) to gain understanding of the optomechanical design and software algorithm. This will serve as a training for our team to contribute to ongoing research in low-power, passive 3D camera development process in the following semester.

What are the major deliverables for your project this semester?

The deliverables can be divided into two big parts: software and hardware. The hardware part will include the Focal Split prototype using beamsplitter, sensors, and a Raspberry Pi for computation. The software part will include computation, filtering, and estimation using the proposed algorithm from the derived equation on the paper.

(Continue to fill in your PD Plan on the following page.)

What professional development opportunities would help you achieve your project responsibilities? (in what areas do you want to focus that align with your teamwork and/or individual interests)?

Track/Topic**	Activity	Organizing unit	Date (of activity or expected participation)	How does this activity align with your individual and/or team objectives?
1. PD (Required)	Welcome to VIP	VIP	Complete by Friday, January 31 st	This have prepared me to know what to expect throughout this course.
2. Communication: Written (Required)	Research Conference – Application submission	OUR	Abstract due: October 16 th , 2025 See Purdue Undergraduate Research Conference Website	This activity helps the overall layout of the project that has to be completed in a semester.
3. Communication: Share with the World (Required)	Research Conference – Poster/Oral Presentation	OUR	Poster/oral presentations: November 19th (WL) See Purdue Undergraduate Research Conference Website	This activity helps communicate the project in a professional manner with peers and experts.
4. Career Planning	Boilermaker Circuit	ECE	11 Sep 2025	This activity informs what roles and skills are expected in a career field with the knowledge obtained in my major.
5. Entrepreneurship	Basics of Intellectual Property (video)	VIP	18 Sep 2025	This video instructs what components are intellectual property when a company develops a product.
6. Graduate School	Tips for a Strong Graduate School Application (video)	VIP	27 Sep 2025	This video advise realistic tips when writing an application for the graduate school.
7. Leadership & Management	Steps To Leaps-Impact Module	VIP	5 Oct 2025	This module delivers concepts of personal impact to create positive change in a community.
8. Personal Development	High Performance Mindfulness (video)	VIP	14 Oct 2025	This video guide through methods of increasing focus and productivity.
9. Ethics	Research Ethics Presentation from Dr. Courtney (reading)	VIP	21 Oct 2025	This reading highlights the ethical norms regarding integrity and values in research.

10. Technical Skills	Image Processing (reading)	VIP	29 Oct 2025	This tutorial guides through entry-level image processing, which is directly related to the project.
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**Potential topics: Communication (Oral/Written/Interpersonal, Dissemination: Share with the world), Teamwork/Leadership, Project Management, Career Planning, Entrepreneurship, Ethics, Research/Design: How-to and Tools, Emerging/Hot Topics, Technical, Wellbeing, and more...

Documentation of Professional Development Activities

As you complete each activity, document the title, date, and three things you have learned in the appropriate Professional Development assignment in your team Brightspace. The information you provide in that assignment can be used to complete your Midsemester Final Individual Performance Evaluation (IPE) and Final Individual Performance Evaluation (IPE) & PD Reflection (PDR) assignments which are due **Friday, October 10th at 11:59 pm** and **Friday, December 12th at 11:59 pm**, respectively.