Strategic Plan: Fall 2023 (example)

Ken Oguri, Assistant Professor at Purdue Aero/Astro

January 15, 2025

1 Semester Goals

Professional Goals

1. Advising: help new students/projects get started; help everyone keep motivated; meet everyone at least every other week
2. Proposal: submit XX to NASA
3. Proposal: continue discussion with AFOSR on YY and a potential visit to AFRL/AFOSR
4. Paper: complete & submit the journal paper on XYZ to AIAA JGCD by the end of Oct
5. Paper: complete & submit the journal paper on XYZ2 to AIAA JGCD by the end of Dec
6. Paper (if time allows): complete & submit the conference paper on ABC to IEEE ACC by the end of Sep
7. Research: complete theoretical analysis of DEF by the end of Oct
8. Research: complete numerical simulations of DEF by the end of Nov
9. Research (if time allows): start theoretical analysis of a new topic GHI
10. Talk: prepare two talks for IEEE CDC by late-Nov
11. Teaching: teach AAE 440 – nothing special

Personal Goals: (*obviously, you don't need to include personal goals in the version you share with me)

1. Small exercise everyday
2. Spend time together with my wife at least once a month (either in IN or IL)
3. Plan for thanksgiving and winter break with my wife

2 Key Events

Professional events:

1. Proposal: NIAC — Phase I Step B due Sept 14 2023
2. Conference (myself): IEEE CDC — final version submission due Sept 10; conference: Dec 13-15
3. Conference (students): AAS GNC — abstract submission due Sep 8; full paper due mid-Dec
4. Visiting scholars: Hirotaka Sekine (Sep 4 – 27); Hal Oki (Nov 20 – Dec 8)
5. Service (JASS cislunar space issue guest editor): XXX
6. Service (IEEE ACC associate editor): YYY

Personal events: (*obviously, you don't need to include personal events in the version you share with me)

1. Thanksgiving break
2. Winter break

3 Short-term Objectives

Week	Objectives
Aug 21	• Fall 2023 begins • Proposal (NIAC): create overall format & send email to collaborators • Research: complete + submit CDC paper final version – SCvx* (submission due Sept 10) • Teaching: create first decks of slides (intro + review) + PS1 + find graders
Aug 28	• Proposal (NIAC): create technical approach section + complete other sections • Research: complete + submit CDC paper final version – smooth indirect (submission due Sept 10) • Teaching: create next decks of slides (rigid body A)
Sep 4	• Proposal (NIAC): complete technical approach section • Research: submit both CDC papers final version (due Sep 10) • Teaching: create PS2 + create slides (rigid body B-D)
Sep 11	• Proposal (NIAC): complete and submit (due Sep 14) • Teaching: create PS3
Sep 18	• Research (ACC): theoretical analysis & numerical simulation
Sep 25	• Research (ACC): complete paper + submit • Teaching: create PS 4
Oct 2	• Research (JGCD): complete numerical result section + intro • Teaching: create mid-term exam
Oct 9	• October break: Oct 9-10 • Research (JGCD): complete paper • Teaching: create PS 5
Oct 16	• Research (JGCD): send to co-authors • Teaching: exam
Oct 23	• Research (JGCD): complete + submit • Teaching: create PS 6
Oct 30	• Paper (JGCD2): re-formulate the theory • Research (IEEE CDC): create slides for SCvx*
Nov 6	• Paper (JGCD2): re-do numerical simulation • Research (IEEE CDC): create slides for state-constrained smooth indirect method • Teaching: create PS 7
Nov 13	• Paper (JGCD2): complete numerical simulation • Research (IEEE CDC): finish creating slides for the two talks • Teaching: buffer
Nov 20	• Thanksgiving break: Nov 22-25
Nov 27	• Paper (JGCD2): complete introduction • Paper (JGCD2): add discussion section – computational complexity and performance in comparison to other methods • Teaching: create final exam
Dec 4	• Paper (JGCD2): complete and submit paper • Research (IEEE CDC): presentation practice • Teaching: buffer

Dec 11	• attending IEEE CDC
Dec 18	• Research (2024 IEEE CDC): start theoretical analysis • Teaching: finalize grades
Dec 25	• Winter break • Teaching: prep for Spring 2024
Jan 1	• Winter break • Teaching: prep for Spring 2024
Jan 8	• Spring 2024 begins • Teaching: prep for Spring 2024