## CSE12 – Computer Science & Engineering 12 (and Lab)

Assignment Project Exam Help

# Computing Systems and Manager Programming

Prof. Sagnik Nath Winter 2021





## Hi, I'm Sagnik

- A bit about me:
  - ♦ UG-> Indian Institute of Engineering and Science technology, India
  - Graduate-> Renssalaer Polytechnic Institute, NY
  - Directly got into academic after PhD
  - Just gotout of teaching Project Exam Help

Development of a Methodology for Automatic Placement and Routing of SFQ Circuit Designs and an Associated Standard Cell Liptops://powcoder.com

Authors Sagnik Nath

Publication date 2020

Add WeChat powcoder

Institution Rensselaer Polytechnic Institute

Description

Since the early 1990s, Single flux quantum (SFQ) logic has been wielded as a worthy alternative to power efficient high performance computing. Many significant circuit demonstrations have been made in this technology, such as single gate clock speeds of upto 750 GHz, 8-32 bit adders, multipliers, ALU at clock speeds of 20 to 30 GHz and Analog-to-digital converters with sample rates of 40 GHz, all by several research efforts. However, this new technology has presented some design challenges as well: SFQ does not have the same density as CMOS circuits. They still need an effective power efficient solution for data storage, and most importantly do not yet have a universally accepted optimal circuit design approach.

Scholar articles

Development of a Methodology for Automatic Placement and Routing of SFQ Circuit Designs and an Associated Standard Cell Library

S Nath - 2020





CSE12 – Winter 2021 2

#### What is CSE 12?

#### CSE12: Computer Systems and Assembly Language

Introduction to computer systems and assembly language and how computers compute in hardware and software. Topics include digital logic number systems data structures, compiling/assembly process, basics of system software, and computer architecture. May include C language. Students with no prior programming experience are strongly recommended to take course 3, Computer Science 5J, Computer Science 5P, Computer Science 10, or equivalent before taking this course.

CSELOO

https://powcoder.com

Assignment Project Exam Help





#### The Instructional Team

- Instructor:
  - Sagnik Nath(sanath@ucsc.edu)
- Teaching Assistants

Wang	Yusu	ywang646@ucsc.edu	
Lei	Ahristian 01	ment Project Exa	m Help
Moghadam	Majid	mamoghad@ucsc.edu	тт 110-р
Carmona	Marco	maacarmo@ucsc.edu	
Li	Mengjie <b>nt</b>	tps://powcoder.co	)m
Boivin	Megan	mcboivin@ucsc.edu	
Serrano	Kevin 🛕	ld WeChat powc	oder
Port	Andrew	aaport@ucsc.edu	

- MSI Tutor
  - ◆ Thomas Schork , tschork@ucsc.edu
  - "Tutoring services will start Wednesday, January 13th and I will make a piazza announcement on that day" – email correspondence





CSE12 – Winter 2021 4

### Our online presence

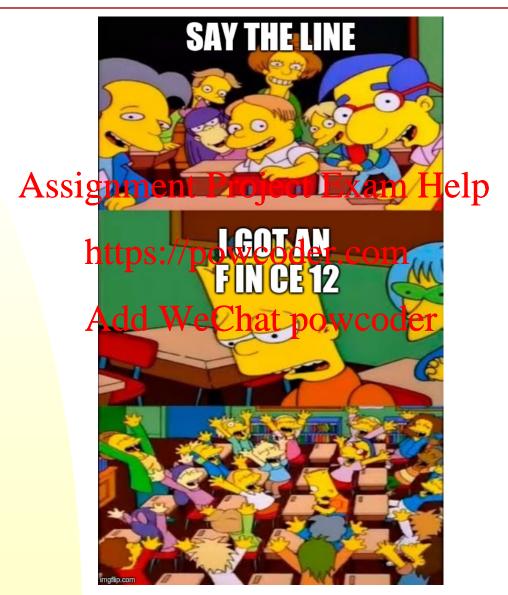
- https://canvas.ucsc.edu
  - Assignments
  - Calendar
- https://https://piazza.com/clase/kii3k7h116h2nh
  - Announcements
  - ◆ All questiohttps://poweeder.com
  - Public can be anonymous from classmates
     Add WeChat powcoder
     Private is to contact instructional staff only

  - ◆ DO NOT POST CODE IT IS ACADEMIC DISHONESTY
- Google Drive and Forms
  - Shared Files (e.g. syllabus, reading schedule)
  - Lab documentation upload
  - ◆ Regrade requests





#### How to succeed in CSE 12





## **Tutoring and other help options**

- Show up to lectures, lab help sessions!
- One TA plus at least 2 tutors for individual help
  - ⋆ Don't wait until last minute, can have queues!
  - ◆ Office ssignment Projecti Exem Helpss the entire week https://powcoder.com
- MSI Tutors Add WeChat powcoder
  - UCSC provides additional group and individual tutoring through the MSI (announcement previously)





#### **CSE 12 vs 12L**

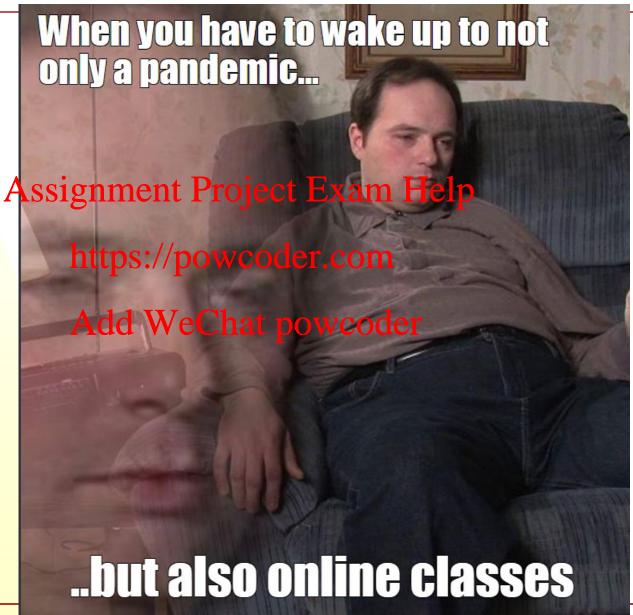
- CSE 12 and 12L are ONE COURSE
  - ◆ If you are "only" in 12L, you must take the exams too.
  - ♦ If youAssignmentiProjectoExamsHelpall the labs too.
  - https://powcoder.com

    You must attend lecture to understand lab
    requiremental.WeChat powcoder
- You will receive the same grade for CSE 12 and 12L.





## These are quite challenging times...







## **Considerations during COVID**

- You may set up Discord groups to enlighten each other on course topics but... SHARING of HW/quiz/exam solutions, SHARING of code, etc NOT allowighment Project Exam Help
- TAs have been tasked to patrol cyberspace and https://powcoder.com look out for suspicious activity.
- Midterm can be Wakehat Pamyothre between
   9:00am and 11:59 pm on the date of the exam (Not allowed for final though)
- I will try to be as accommodating as possible!
  Please bear with me throughout the quarter





## **During lectures**

- Will always be through Zoom
- I can't always see the messages on Chat as they speed through
- If you have questions jest Examutel Praise Hand" features://powcoder.com
- Please alert me if you notice anything glaringly Add WeChat powcoder wrong during lectures (e.g. I forgot to enable recording, or the lecture time is up)





## **Primary Textbook**

- Will be downloaded from zybooks.com
- Will provide details in a follow up email by today.
- Cost of Assignment Project Exam Help
- This book wittps!/powecoderbases of lecture based assignments(quizzes and HW) that will add to your grade
- Secondary helpful textbooks mentioned in the syllabus doc in google drive





#### Lab sessions

- We won't have actual physical lab sessions.
- Lab0 wont have any lab hours at all (Video tutorial showing solutions will be shared; you only hatesignment Project Exam Help
- We are still formalizing the approach to lab Most likely setup: Lab video demos will be provided and their South Play approach the TAs and tutors during their office hours for help.





## **Academic Dishonesty**

- The working definition for cheating is presenting someone else's work as your own.
- Here are a few scenarios, for each of these let me knowsignmentiPkojeist ExameHeipg (per definition above) or not: https://powcoder.com
- definition above) or not: https://powcoder.com
   For each Scenario please raise your hand if you think it is cheding. Chat powcoder





#### **UCSC Academic Misconduct Penalty Levels**

- Warning letter and other potential ramifications
- Mandatory Suspension
- Permanent Dismissal from the University of California.

  California: Project Exam Help
- Typically the time say and the next infraction will be a level two Agrievous 1st time case can also be counted as a level two directly.





You have a friend in your sorority/fraternity who took the class two years ago, and they passed on the solutions they implemented for the labs. You do the lab with their code open in front of you, and change details around as appropriate; ignited Project Example 1989.

https://powcoder.com

Add WeChat powcoder





You have a friend in your sorority/fraternity who took the class two years ago, and they passed on the solutions they implemented for the labs. You do the lab with their code open in front of you, and change details around as appropriate; is needed.

#### https://powcoder.com

- This is an academic violation because the code is theirs not yours. It del Werepatern yours.
- Remember the TAs have been attached to this course for over 6 years! So they have a huge record of student work from the last 6 years. Will run plagiarism check on your submitted work against past student work





CSE12 – Winter 2021 17

Tou have a friend in your sorority/fraternity who took the class two years ago, and they passed on the solutions they implemented for the labs. Before Atarting of the property of the labs at through their solution to get inspiration and ideas how to implement the solution.





- You have a friend in your sorority/fraternity who took the class two years ago, and they passed on the solutions they implemented for the labs. Before Atarting on the property of the labs. Before Atarting on the property of the labs. They would be through their solution to get inspiration and ideas how to implement the solution.
- This is not as by the bottes till the academic violation. Again the code base you are using is not your own.





 You and a friend decide to work together on the assignment. You code together, and submit the same files.

Assignment Project Exam Help

https://powcoder.com





- You and a friend decide to work together on the assignment. You code together, and submit the same files.
- This is also igamental de init vous libration of your own.

  you submitted is not your own.

  https://powcoder.com





## Scenario 3(a)

 You and a friend decide to work together on the assignment. You code together and submit the same files (except your files note your collaboration with Projection Help

https://powcoder.com





## Scenario 3(a)

- You and a friend decide to work together on the assignment. You code together and submit the same files (except your files note your collaboration with Projection Help
- This is not an academic violation. Though you will receive a zero for this assignment if the assignment deed rotal www.coden.





You and a friend decide to work together on the assignment. You discuss how to approach the different sections, what strategies you might use, and ship ment profeer Elarify Helpat the assignment demands. You go off and code on your own, and submit your individual files.





- You and a friend decide to work together on the assignment. You discuss how to approach the different sections, what strategies you might use, and ship interest profeer Elarify Helpat the assignment demands. You go off and code on your own, and submit your individual files.
- This is perfectly fine typowere enot discussing specific details but what is required of the assignment.





## Scenario 4(a)

You and a friend decide to work together on the assignment. You discuss how to approach the different sections, what strategies you might use, and help each other clarify what the assignment demands. You go off and code signment Project Examy Help dividual files (noting in the README that you discussed the assignment with your friend).

Add WeChat powcoder





26

## Scenario 4(a)

- You and a friend decide to work together on the assignment. You discuss how to approach the different sections, what strategies you might use, and help each other clarify what the assignment demands. You go off and codessignment Project Trainy Helphdividual files (noting in the README that you discussed the assignment with your friend).
- This is even bediterWether prevainderities in your files we know who you worked with.





CSE12 – Winter 2021 27

You and a friend decide to work together on the assignment. You discuss how to approach the different sections, what strategies you might use and help each other clarify what the assignment demands. You write your code sitting type webdeneound checking in to make sure you are not making mistakes.

Add WeChat powcoder





28

- You and a friend decide to work together on the assignment. You discuss how to approach the different sections, what strategies you might use and help each other clarify what the assignment demands. You write your code sittingtos://powcodeneomd checking in to make sure you are not making mistakes.
- This is an academic Wolation. You are sharing code with each other and the work is no longer your own. Both of you fail.
- (noting in the README that you programmed together will get you a zero on the assignment, but not an academic violation).



CSE12 – Winter 2021 29

You are struggling with the assignment, hire someone one the internet to do the programming assignment for you. After getting back the stream, project white propfully and make sure you understand what the code does before turning it in.

Add WeChat powcoder



- You are struggling with the assignment, hire someone on the internet to do the programming assignment for you. After getting back the programsing the programsing programsing the programsing programsing the programming it in. After getting back the programming the programming in the programming assignment, hire assignment, hire someone on the internet to do the programming assignment for you. After getting back the programming the programming assignment for you. After getting back the programming assignment for you. After getting back the programming the programming assignment for you. After getting back the programming the programming assignment for you. After getting back the programming the programming the programming assignment for you. After getting back the programming the programming the programming assignment for you. After getting back the programming the
- This is an abddemachatopatromdene work you turned in is not your own (and expect to be blackmailed by the programmer).





■ You are struggling with the assignment, and search the web for solutions. You find a solution or something rather close to it on GITHUB. You use this significations to it.

https://powcoder.com





- You are struggling with the assignment, and search the web for solutions. You find a solution or something rather close to it on GITHUB. You use this significations to it.
- https://powcoder.com
  This is an academic violation. The work is not your own. Authoright likely other someone else will also find the same work and you will both get flagged for it.





You are struggling with the assignment, and go to one of the "cheating" sites like CourseHero which has solutions to class assignments and find a salstignmenth diet Exam Help

https://powcoder.com

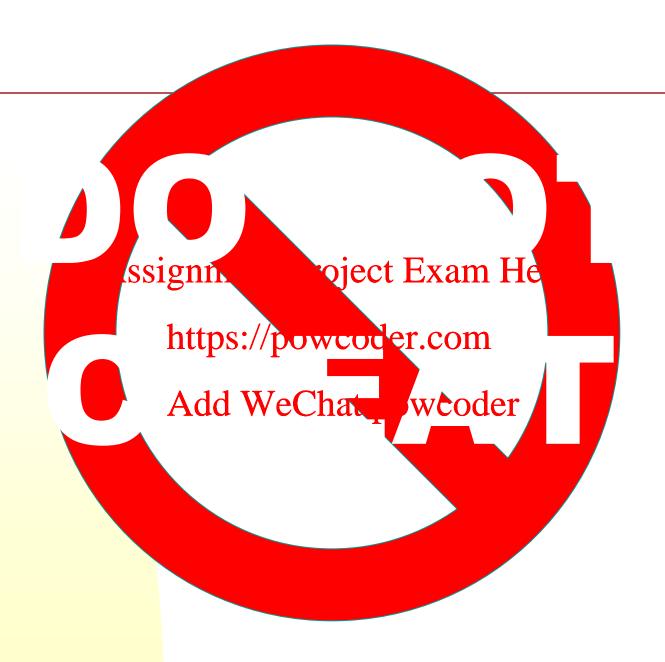




- You are struggling with the assignment, and go to one of the "cheating" sites like CourseHero which has solutions to class assignments and find a salstignmenth below Exam Help
- This is an academic violation. The work is not your own.









40

## Special needs (DRC)

- Students with special needs should refer to the Disability Resource Center
- Notify me and Majid (TA) within first week of class
- Use email subject "DRC CSE12 syourcruzid>"
- I will NOT entertain DRC time limit for HW!

e.g. 2x for midter powcoder and time e.g. 2 week submission will not become 2 weeks!

This would severely impact the pedagogy for this class

 Confirm with me and SOE office at least 1 week before each exam so we may try to accommodate your needs





CSE12 – Winter 2021 41

## Lab 0 – DUE Next Monday 11:59pm (tentatively)

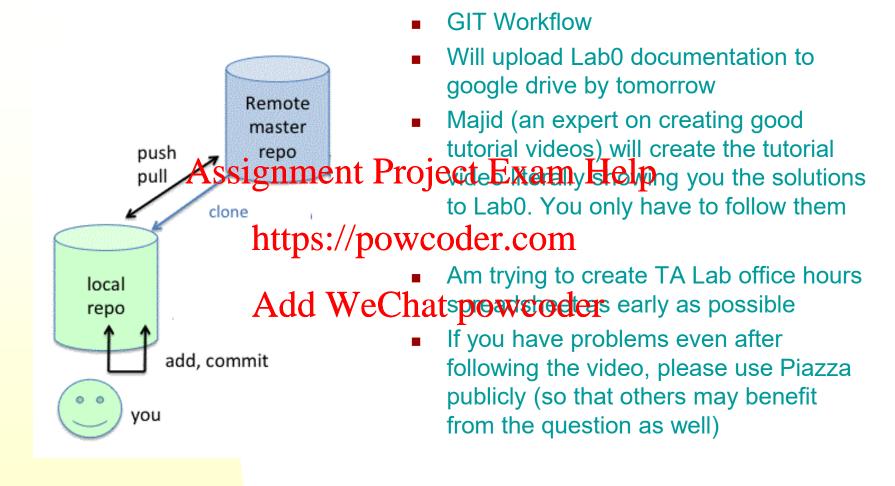
- GIT Workflow
  - ◆ Go through GIT tutorial (provided in syllabus doc in google drive)
  - Create an a GITLAB account
     <a href="https://git.ucsc.edu/users/sign\_in">https://git.ucsc.edu/users/sign\_in</a>
     (use your cruzID!Else it will NOT work)
     PLEASASSIGNIMENTERROJECTOEXAM Help
    - ⋆ Only then can we create your git repository.
  - Submit the Rhttps://powgodericom
    - ★ Submission means that you agree to the terms of responsibility statementAdd WeChat powcoder
    - ★ You cannot continue in the class without doing this
    - All future assignments will be submitted this way (and only this way)





CSE12 – Winter 2021 42

## Lab0: A high level visualization







43