

GSoC 2025 Proposal - CircuitVerse

[Project Name]

All sections in this template are compulsory, but you are free to add your own sections.

Make sure you read Project Ideas before writing your proposal. Note that each proposal is for one project only. You can submit multiple proposals for the same organization for different projects. Read GSoC guidelines for proposals.

Important: GSoC 2025 offers projects of various sizes:

- **Small:** 90-hour projects (typically 8-week timeline)
- **Medium:** 175-hour projects (typically 12-week timeline)
- **Large:** 350-hour projects (typically 12-22 week timeline)

Please specify your preferred project size in your proposal and adjust your timeline accordingly. You can also request an extended timeline (up to 22 weeks) if needed based on your other commitments.

Your proposal should contain at least the following information, but feel free to include anything that you think is relevant.

Personal Details

Name: Course/Program: Email: GitHub: LinkedIn: Phone: Current Country:

Link to Resume/CV:

All fields are compulsory

About Yourself

- Please describe yourself, including your development background and specific expertise.
- Why are you interested in the CircuitVerse project(s) you stated above?
- Have you participated in an open-source project before? If so, please send us URLs to your profile pages for those projects or some other demonstration of the work that you have done in open-source. If not, why do you want to work on an open-source project in GSoC this summer with CircuitVerse?

Commitment

- Are you planning any vacations during the GSoC 2025 period (June 2 - September 8, 2025, or June 2 - November 17, 2025 for extended projects)?
- How many classes are you taking during the GSoC period?
- Do you have any other employment during the GSoC period?
- Which project size are you applying for?
 - Small (90 hours)
 - Medium (175 hours)
 - Large (350 hours)
- How many hours per week do you expect to work on the project and what hours do you tend to work?
- If applying for an extended timeline project, please explain why you need the extended period and how you plan to manage your time.

Contributions So Far

- PRs merged and unmerged
- Issues and bugs found
- Documentation contributions
- Other contributions to CircuitVerse

Proposal

Overview

- Provide a brief overview of your proposed solution and objectives you want to achieve with your chosen project.
- Please include programming languages, tools, and technologies you plan to use.

Detailed Description

Describe your proposed solution in as much detail as you can. Explain what algorithms/technologies you intend to use/study (if any). You can also include links to additional details like diagrams, wireframes, information architectures, etc., outlining your ideas acting as supplementary information for your proposal.

The strongest proposals will help us understand why these features are a good idea. How will the features you propose help the project or its users?

Project Plan

How do you plan to spend your summer? Please include a preliminary plan, broken down by pre-Midterm and post-Midterm, on how you think you can fulfill your project in the time allocated. Try to be as specific and realistic as you can with your goals and timeline.

The project plan and its timeline will form a significant part of the assessment of your application, as well as mid-term and final evaluations.

Project Plan - Preliminary Timeline:

May 8 - June 1, 2025 (Community Bonding Period)

- Understand existing codebase
- Discuss with mentor about implementation approach
- Set up development environment
- Create detailed implementation plan

Option 1: Small 90-hour Project Timeline (8 weeks)

Week	Dates	Tasks to be Completed
Week 1	June 2 - June 8, 2025	
Week 2	June 9 - June 15, 2025	
Week 3	June 16 - June 22, 2025	
Week 4	June 23 - June 29, 2025	
Midpoint Check	June 30, 2025	Midpoint Progress Review
Week 5	June 30 - July 6, 2025	
Week 6	July 7 - July 13, 2025	
Week 7	July 14 - July 20, 2025	
Week 8	July 21 - July 27, 2025	
Final Submission	July 28, 2025	Project submission deadline

Option 2: Medium 175-hour Project Timeline (12 weeks)

Week	Dates	Tasks to be Completed
Week 1	June 2 - June 8, 2025	
Week 2	June 9 - June 15, 2025	
Week 3	June 16 - June 22, 2025	
Week 4	June 23 - June 29, 2025	

Week 5	June 30 - July 6, 2025	
Week 6	July 7 - July 13, 2025	
Midterm Evaluation	July 14 - July 18, 2025	Midterm Evaluation Milestone
Week 7	July 14 - July 20, 2025	
Week 8	July 21 - July 27, 2025	
Week 9	July 28 - August 3, 2025	
Week 10	August 4 - August 10, 2025	
Week 11	August 11 - August 17, 2025	
Week 12	August 18 - August 24, 2025	
Final Week	August 25 - September 1, 2025	Final testing, documentation, and code cleanup
Final Submission	September 1, 2025	Project submission deadline

Option 3: Large 350-hour Project Timeline (22 weeks)

Phase	Dates	Tasks to be Completed
Phase 1 (Weeks 1-6)	June 2 - July 13, 2025	
Midterm Evaluation	July 14 - July 18, 2025	Midterm Evaluation Milestone
Phase 2 (Weeks 7-12)	July 14 - August 24, 2025	
Regular Final Evaluation	August 25 - September 8, 2025	Standard Project End
Phase 3 (Weeks 13-17)	September 9 - October 12, 2025	
Phase 4 (Weeks 18-22)	October 13 - November 9, 2025	
Extended Final Week	November 10 - November 17, 2025	Final documentation and submission

Extended Final Deadline	November 17, 2025	Extended project submission deadline
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Note: Please complete the timeline for your chosen project size. Delete the other options from your final proposal.

Major Milestones

List the major milestones (~3-5) with approximate dates.

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Additional Information

Convince us that you will be able to successfully complete your project in the timeline you have described. This is usually where people describe their past experiences, credentials, prior projects, schoolwork, and that sort of thing, but be creative. Link to prior work or other resources as relevant.

If you apply to more than one GSoC project, especially if you also apply for a project in another organization, specify which project you prefer. In case two organizations choose to accept your applications, we can then give you the project that is most important to you. Preferring the project of another organization will not influence our decision whether to accept your application.

Project Size and Timeline Selection

Please use this section to justify your choice of project size:

- Small (90 hours)
- Medium (175 hours)
- Large (350 hours)

Explain why the selected size is appropriate for your proposed project scope and your personal availability.

If you're applying for a medium or large project with an extended timeline (beyond the standard 8-week or 12-week period), please provide:

- Specific reasons for needing the extended timeline
- Your commitment to the longer project period
- How you will maintain momentum throughout the extended timeline
- Any potential challenges you foresee in the extended timeline and how you plan to address them

What to Expect from Your Mentor (and What Your Mentor Expects from You)

If you are selected for GSoC with CircuitVerse, you can expect the following:

- We recognize that the goals may change during the project, and the mentors will accept modifications to the goals at any time. But they are also expecting to see reasonable effort go into the initial project timeline. Any changes to your goals or plan are expected to be immediately communicated to your mentor.
- The scope of the project might change to fit within the duration of GSoC.
- Your mentor will establish a weekly, synchronous check-in with you.
- In addition to that check-in, your mentor will discuss with you any specific status updates or any other regular communication they expect from you as well as which methods they prefer for documentation and collaboration (Google Docs, wiki, etc.).
- The project plan and timeline you set forth in your application will also form a significant part of your midterm and final evaluations.
- For extended timeline projects, your mentor will work with you to establish additional checkpoints and milestones to ensure continuous progress.

What to Expect from GSoC at CircuitVerse

We want you to have a productive, engaging summer. To that end:

- We will schedule several events throughout the summer where you can interact with other GSoC students and the rest of the CircuitVerse community.
- You will have the opportunity to present your work to this broader community.
- You'll receive mentorship and guidance from experienced developers in the CircuitVerse ecosystem.
- Your work will contribute to an educational platform used by students and educators worldwide.