

![Image](assets/credits.png)

Active Maintainers/Creators

About the Creators

VIREX (VIRtual EXecuter) is a clean-room virtual machine built with clarity, extensibility, and education in mind. The project is maintained by two core developers who each own a unique layer of the system.

=== "Soham Metha"



{ width="120px"

style="border-radius: 50%;"}
}

```
[]  
(https://en.wikipedia.org/wiki/C_(programming_language)) [![]  
(https://img.shields.io/badge/Project-VIREX-success)]() [![]  
(https://img.shields.io/badge/Project-SASM-success)]()
```

> **Role**: Lead Developer

> **Modules Owned**: VIREX VM, SASM Assembler, VS Code Extension, Docs

- Designed the **VIREX** Virtual Machine architecture.
- Developed the **SASM Assembler** and complete instruction set.
- Built tooling: AST visualizer, debug tools, and VS Code syntax extension.
- Authored all core documentation.

- Maintains the monorepo, versioning, and long-term roadmap.

```
> "VIREX is a hands-on way to explore systems programming, not just study it."
```

=== "Omkar Jagtap"



{ width="120px" style="border-radius: 50%;"}

```
[![]](https://img.shields.io/badge/Language-C-blue)
(https://en.wikipedia.org/wiki/C_(programming_language)) [![]
(https://img.shields.io/badge/Project-ORIN-orange)]()
[![]](https://img.shields.io/badge/Target-SASM-lightgrey)]()
```

```
> **Role**: `Compiler Engineer - ORIN`
> **Modules Owned**: ORIN Compiler (WIP)
```

- Designing and implementing ****ORIN****, the high-level language compiler targeting SASM
- Handles the full compilation pipeline: parsing, IR generation, and SASM output
- Exploring advanced features like expression optimization and static analysis

```
> "ORIN aims to make high-level programming compatible with low-level control."
```

Tech Stack Highlights

Virtual Machine **VIREX** Assembly Language **SASM** Compiler **ORIN**

Editor Support **VS Code**

License **GPL3**

Contact & Community

- GitHub: github.com/sohammetha/virex
- Interested in contributing? Check out [CONTRIBUTING.md](#)

VIREX is open. Hackable. Minimal. Built for builders.

References

- [Tsoding](#)

- [Dr Birch](#)
 - [Low Byte Productions](#)
 - [Cobb Coding](#)
-