

!!! info inline end ""

```
<figure markdown="span">
  ![Image](assets/credits.png)
  <figcaption>Active Maintainers/Creators</figcaption>
</figure>
The project is maintained by two core developers who each own a unique
layer of the system.
```

Virtual Machine **VIREX** Assembly Language **SASM** Compiler **ORIN** Editor Support **VS Code** License **GPL3**

=== "Soham Metha"

!!! tip ""



{ width="120px"

style="border-radius: 50%;padding: 4px;"} }

```
> **Role**: Lead Developer <br>
> **Modules Owned**: VIREX VM, SASM Assembler, VS Code Extension, Docs
```

!!! quote ""

- 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."** <br>

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

!!! tip ""
```

=== "Omkar Jagtap"



{width="120px" style="border-radius: 50%;"}</p>
</div>
<div data-bbox="111 414 762 483" data-label="Text">
<pre>[]
(https://en.wikipedia.org/wiki/C\_(programming\_language)) [![]
(https://img.shields.io/badge/Project-ORIN-orange)]() [![]
(https://img.shields.io/badge/Target-SASM-lightgrey)]()</pre>
</div>
<div data-bbox="111 500 551 516" data-label="Text">
<pre>> \*\*Role\*\*: Compiler Engineer - ORIN <br></pre>
</div>
<div data-bbox="111 517 732 550" data-label="Text">
<pre>> \*\*Modules Owned\*\*: ORIN Compiler (WIP), Custom Hashtable
Implementation</pre>
</div>
<div data-bbox="111 566 873 668" data-label="List-Group">
<ul>
<li>- Designing and implementing \*\*ORIN\*\*, the high-level language compiler targeting SASM</li>
<li>- Handles the full compilation pipeline: parsing, IR generation, and SASM output</li>
<li>- Exploring advanced features like expression optimization and static analysis</li>
</ul>
</div>
<div data-bbox="111 685 862 718" data-label="Text">
<pre>> \*\*ORIN aims to make high-level programming compatible with low-level control.\*\*</pre>
</div>
<div data-bbox="84 769 349 794" data-label="Section-Header">
<h2><img alt="Prayer hands emoji" data-bbox="88 773 118 794"/> Acknowledgments</h2>
</div>
<div data-bbox="81 809 234 825" data-label="Text">
<p>We'd like to thank:</p>
</div>
<div data-bbox="111 841 789 897" data-label="List-Group">
<ul>
<li>• <a href="#">Tsoding</a>, <a href="#">Dr Birch</a>, <a href="#">Low Byte Productions</a>, <a href="#">Cobb Coding</a> for foundational resources.</li>
<li>• The open-source ecosystems around JVM, and language tooling.</li>
<li>• Friends and testers who offered feedback during early development stages.</li>
</ul>
</div>

## Contact & Community

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

---

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

---