# Executive Summary

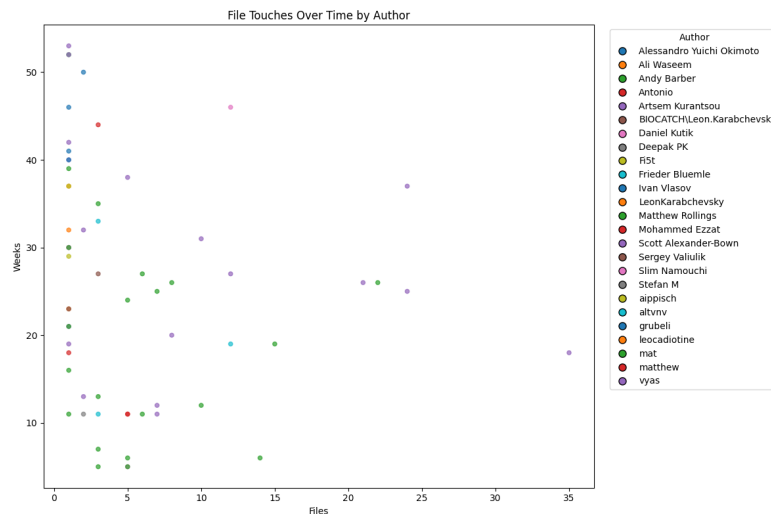## RootBeer Project Status

**Project**: RootBeer (Android Root Detection Library)

**Reporting Period**: Historical through recent weeks (Git commit analysis)

**Prepared By**: Project Management

**Audience**: Senior Leadership / Board Review

**Forked GitHub Repo**: https://github.com/villea7/msrLab



## Project Status at a Glance:

RootBeer is a **stable, actively maintained security library** with consistent development over time. Analysis of Git commit history shows a **focused codebase**, steady maintenance activity, and clear technical ownership. There are no indicators of project abandonment, uncontrolled rework, or instability.

## Recent Activity Trends:

- Recent weeks show continued activity from primary maintainers.
- No evidence of declining engagement or emergency-driven development.
- File changes are targeted rather than broad, suggesting **controlled updates**.

## Tools & Techniques Utilized:

A custom Python script was utilized to analyze the project's Git history using the GitHub Commit API. For each commit, the script:
- Identified which **source files** were modified.
- Recorded **who made the changes** and **when**.
- Grouped changes by week and visualized in a scatter plot.

Each point in the chart represents a file modification, colored by developer. This makes it easy to see:
- Which files are touched most often
- Who is responsible for those files
- How activity evolves over time