July 16, 2025

Software Languages Security Lab University of Texas at Dallas 800 W Campbell Rd Richardson, TX, 75080 Email: charles@utdallas.edu

Doctoral Student Computer Science Department University of Texas at Dallas

To Onward! Reviewers A-C,

Thank you for the thoughtful and detailed review of my essay! I had fun reading your comments and revising my work with their wisdom. Nearly every line of text was altered in some way for this re-submission. Following is a list of changes made in the spirit of your reviews:

- All tenses changed to past tense
- · Abstract and introduction make it clear that this is a fictional prediction of what is to come
- The relationship between top-down and bottom-up FM over time has been revised, and the first act's thesis now reflects a future in which the "bottom" of top-down and the "top" of bottom-up slowly grow until they overlap, resulting in a new wave of tools that can seamlessly work with both
- Clarified that Rowan Carter's contributions were built on decades' worth of existing research in fields that lift up the study of FM
- A thesis of change has been provided for nearly all advancements presented in the essay. The common theme that runs throughout them is government pressure due to cybercrime governments are the only organizations large enough to reasonably encourage change in the direction of FM (for now! I eventually introduce GIANT, a joint hardware-software FM laboratory formed from several relevant tech giants)
- Clarified the issues with constraining the behavior of AI and IO components
- · Referenced lightweight formal methods when referring to currently-existing FM practices in industry
- · Abstract and introduction are revised to better reflect the tone of the rest of the essay
- Addressed that the integration of MVCs into developer pipelines is due to popular languages building support into their compilers for the utilization of these components

m1 1		
Thank y	7011 ag	raın!

Sincerely,

Charles Averill