Date	Start Time (24h)	End Time (24h)	Duration (hours)	Week Subtotal	Week Overtime	Notes
Week 53	4/30	5/6				
2022-04-30	0:00	0:30	0.5			(Continued)
2022-05-01	1:00	3:00	2			Backup APIs and verifyByEmail for users
2022-05-01	4:00	7:00	3			Initial review and request for information on Horizon Bridge launch; Research on backup approaches and GCS implementations; Review on Timeless source code pull request related to loading EOTP in memory; Review Timeless proposed security diagram; Provide feedback and guidance on deficiencies and potential areas of improvements
2022-05-01	10:30	11:30	1			(Continued) and research on best GCS approaches for backup services
2022-05-01	19:30	22:30	3			Review of Harmony offsite initiatives; Research, summary, and written plan for Security, Monitoring, Alert initiative
2022-05-02	11:00	13:30	2.5			More granular stats histogram; Repeated runs for stats retrieval and verifications; Fix a bug with blank staking page caused by scientific representation of javascript numbers; Save output for stats histogram; Review suggested fix on tracked tokens (#314)
2022-05-02	17:00	17:30	0.5			Include staked balance for stats histogram; Update key stats numbers
2022-05-04	20:00	20:30	0.5			Sync on recovery address and guardian matters with Timeless
2022-05-06	15:00	17:00	2	15.0)	Review strategies, polls, comments, do research and make votes
Week 54	5/7	5/13		13.0	,	review strategies, polis, comments, do research and make votes
	-		2			Dridge recease (watcher mechanisms trilemms problems named)
2022-05-07	7:00	9:00	2			Bridge research (watcher mechanisms, trilemma problems, nomad)
2022-05-08	9:00	12:00	3			Bridge research (arbitrum, terra, various major hacks)
2022-05-08	18:00	20:00	2			Review Dionysis presentation, papers, and sync with John on bridge matters
2022-05-10	18:00	19:00	1	8.0)	Sync with John on wallet integration matters and bridge development
Week 55	5/14	5/20				
2022-05-18	16:00	17:00	1			Sync with John on bridge development, project structure, and QA
2022-05-20	12:30	13:00	0.5	1.5	5	Sync with John
Week 56	5/21	5/27				
2022-05-21	12:00	13:00	1			Review and fix various issues reported by SystemDisc (#317 plus some private emails)
2022-05-21	23:30	0:00	0.5			Review and merge #314, #310
2022-05-22	0:00	0:30	0.5			(Continued) and review integration demo issues
2022-05-23	1:00	1:30	0.5			Review bridge PR #31 (canonical cain)
2022-05-23	20:30	21:30	1			Sync with John
2022-05-24	8:00	9:30	1.5			Review bridge PR and code #30, #31 (canonical cain) Review bridge PR and code #31 (canonical cain), #35 (Merkle Patricia Tree
2022-05-25	1:00	3:00	2			implementation), Issue #22
2022-05-25	11:00	15:00	4			Review bridge PR #34 (limiting storage) and #35 (MPT library)
2022-05-25	0:00	23:30	3.5			Review and feedback on bridge PR #37 (developer guide) and #38 (refactor) Review bridge PR #38 (refactor); Further feedback and discussion on bridge
2022-05-26	1 1 1 1	1:30	1.5	47.0		PR #31 (canonical cain); Further review on #37 (developer guide)
2022-05-27	14:00	15:00	1	17.0)	Sync with John
Week 57	5/28	6/3				
2022-06-02	17:00	18:00	1			Bridge development planning and discussions
2022-06-02	20:00	0:00	4	5.0)	Bridge research regarding BLS12-381 verification and code review for related golang and smart contract implementations
Week 58	6/4	6/10		0.0		gotalig and small contract implementations
2022-06-06	11:30	12:30	1			Sync with John on challenges of bridge implementation and dividing tasks
2022-06-07	0:00	2:00	2			Research on BLS signature fundamentals
2022-06-07	10:00	11:30	1.5			Turstless bridge contract-based BLS signature verification research and progress update
2022-06-07	15:30	16:00	0.5			Sync with John (ETH Light Client and various issues to debug)
2022-06-07	20:30	21:00	0.5			Continuing to debug
2022-06-07	23:00	0:00	1			Research on BLS signature fundamentals and reviewing original paper
2022-06-08	11:30	2:30	2.5			(Continued) and review bridge #38 (refactor) Research and feedback on light client proxy proposal based on Intel SGX; Discussion and analysis regarding Intel SGX based BLS12-381 verification approaches, smart contract verification complexity, and feasibility of using ZKP verification, as well as available tools; Research on miller loop and ways to simplify; Review on EIP 2537; Review solidity-big-number implementations; Review 0xPARC ZKP circuit code for BLS12-381 verification
2022-06-09	0:00	2:30	2.5			Continued review on bridge #37, #38; Deepdive on Intel ECDSA attestation flow and requirements
2022-06-09	11:30	12:00	0.5			Sync with John and debugging IDE and dev environment issues
2022-06-09	21:00	0:00	3			Intel SGX deepdive, feasibility evaluation on SGX attestation verification on contract; Discussion and analysis on SGX related approaches and mechanisms implemented by Avalanche

2022-06-10	0:00	0:30	0.5		(Continued)
2022 00 10	0.00	0.00	0.0		Further research and detailed analysis on ZKP based BLS12-381 verification
2022-06-10	15:00	18:30	3.5		using 0xPARC prototype; Review ÉIP-2537 discussions Further deepdive and Intel DCAP ECDSA architecture, ecnryption and
2022-06-10	21:30	23:30	2	26.0	validation mechanisms, and implementation
Week 59	6/11	6/17			
2022-06-12	17:00	19:00	2		Research and analysis on vulnerabilities related to SGX-based approaches for light-client proxy and watcher mechanisms
2022-06-12	19:30	21:30	2		Research on various curves and precompiles in existing EVM
2022 00 12	13.00	21.00			Research and detailed analysis on smart contract based BLS12-381
2022-06-13	3:30	5:00	1.5		verification and comparing the approach with alternatives; Research on pairing implementation in golang
					Research and code analysis on BLS-verification contracts by Semar and Celo
2022-06-13	13:30	14:30	1		/ Plumo, and existing implementations on EVM
2022-06-13	14:30	15:00	0.5		Sync with John
2022-06-14	2:00	3:00	1		BLS12-381 fundamentals review and signature aggregation and verification methods review
2022-06-14	16:00	16:30	0.5		Sync with John
2022-00-14	10.00	10.30	0.5		Sync with Semar and Genasha, debugging and discussion regarding smart
2022-06-15	15:00	16:00	1		contract implementation of 384 bit arithematics and comparison to golang implementations of BLS12-381 verification inside EVM
					Sync with John and assist Semar on big integer field arithematic and related
2022-06-16	10:45	11:45	1		libraries
2022-06-16	21:00	23:00	2		Catch up on John's bridge development log and issues in #48 (refactor v2)
2022-06-17	12:30	13:00	0.5	13.0	Sync with John and debugging unchecked arithmetic matters
Week 60	6/18	6/24			
2022-06-20	15:00	15:30	0.5		Smart contract BLS12-381 implementation review and debugging
2022-06-20	20:30	21:00	0.5		scrypt-shim vulnerability alert analysis and conclusion
2022-06-19	20:00	22:00	2		Catch up on John's bridge development log and new issues in #48 (refactor v2)
2022 06 24	10.15	10.45	0.5		Bridge header verification contract code review; Sync with Semar and assist
2022-06-21	10:15	10:45	0.5		on library deployment without using contract management frameworks
2022-06-21	15:45	16:15	0.5		Sync with John on bridge development update
2022-06-22	15:00	15:30	0.5		Sync with Semar and Genasha, debugging local EVM environment and smart contract BLS12-381 verification implementation
2022-06-24	7:00	10:00	3		Review (trusted) old bridge incident report, analysis, and incident response
2022-06-24	17:00	20:00	3	10.5	Bridge incident analysis and follow up
Week 61	6/25	7/1			
2022-06-25	10:45	11:15	0.5		Sync with John regarding Australian whitehacker lead and bridge hack
					Sylic with John regarding Australian whitehacker lead and bridge hack
2022-06-25	14:00	16:00	2		Bridge incident targeted investigation
2022-06-25	14:00	16:00	2		
2022-06-25	14:00 16:00	16:00 16:30	0.5		Bridge incident targeted investigation
					Bridge incident targeted investigation Sync with John regarding bridge hack, trustless bridge development, and next steps Bridge incident transaction flow analysis and investigation
2022-06-26 2022-06-27	16:00 8:30	16:30 9:30	0.5		Bridge incident targeted investigation Sync with John regarding bridge hack, trustless bridge development, and next steps Bridge incident transaction flow analysis and investigation On-site bridge incident response and investigation, coordination with oversea
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2022-06-26 2022-06-27 2022-06-27 2022-06-28 2022-06-28 2022-06-28 2022-06-29 2022-06-29 2022-06-29 2022-06-29 2022-06-30 2022-06-30 2022-06-30 2022-07-01 Week 62 2022-07-04	16:00 8:30 10:30 7:30 12:30 13:30 22:30 0:00 9:30 11:30 13:00 17:30 21:00 9:00 13:00 7:30 9:00 21:00 7/2 20:30 10:30	16:30 9:30 18:00 12:00 13:00 15:00 0:00 2:30 11:00 16:00 18:30 23:00 11:30 18:30 10:00 12:00 22:00 7/8 21:30 11:00	0.5 1 7.5 4.5 0.5 1.5 1.5 2.5 1.5 0.5 3 1 2 2.5 5.5 2.5 3 1 0.5	30.0	Bridge incident targeted investigation Sync with John regarding bridge hack, trustless bridge development, and next steps Bridge incident transaction flow analysis and investigation On-site bridge incident response and investigation, coordination with oversea investigations Bridge investigation, sync with FBI, Chainalysis, and others Sync with John on bridge development change and NFT initiatives Bridge investigation, continued Bridge investigation, continued; Suspect profile build-up (Continued) (Continued) Bridge response briefing; investigation follow up Sync with Anchain; Investigation follow-up On-site bridge targeted investigation and suspect profile building Investigation, continued Investigation, continued Suspect profile expansion; Continued investigation Investigation, continued; Log analysis Continued log analysis; Oversea investigation coordination Investigation follow-up, response to North Korea rumors, sync with Elliptic; Sync with John 14.5 Oversea investigation follow-up Internal follow up on investigation Internal follow up on investigation
2022-06-26 2022-06-27 2022-06-27 2022-06-28 2022-06-28 2022-06-28 2022-06-29 2022-06-29 2022-06-29 2022-06-29 2022-06-30 2022-06-30 2022-06-30 2022-07-01 Week 62 2022-07-03	16:00 8:30 10:30 7:30 12:30 13:30 22:30 0:00 9:30 11:30 13:00 17:30 21:00 9:00 13:00 7:30 9:00 21:00 7/2 20:30	16:30 9:30 18:00 12:00 13:00 15:00 0:00 2:30 11:00 16:00 18:30 23:00 11:30 18:30 10:00 12:00 22:00 7/8 21:30	0.5 1 7.5 4.5 0.5 1.5 1.5 2.5 1.5 0.5 3 1 2 2.5 5.5 2.5 3 1	30.0	Bridge incident targeted investigation Sync with John regarding bridge hack, trustless bridge development, and next steps Bridge incident transaction flow analysis and investigation On-site bridge incident response and investigation, coordination with oversea investigations Bridge investigation, sync with FBI, Chainalysis, and others Sync with John on bridge development change and NFT initiatives Bridge investigation, continued Bridge investigation, continued; Suspect profile build-up (Continued) (Continued) Bridge response briefing; investigation follow up Sync with Anchain; Investigation follow-up On-site bridge targeted investigation and suspect profile building Investigation, continued Investigation, continued Suspect profile expansion; Continued investigation Investigation, continued; Log analysis Continued log analysis; Oversea investigation coordination Investigation follow-up, response to North Korea rumors, sync with Elliptic; Sync with John 14.5 Oversea investigation follow-up

2022-07-05	11:30	13:00	1.5		On-site discussions and workshop on several matters: investigation follow-up, SMS Wallet, NFT initiatives, task allocations
2022-07-05	13:00	13:30	0.5		Sync with John on NFT initiative and SMS Wallet tasks
2022-07-05	14:30	18:30	4		On-site discussions of investigation, safety, and NFT minting and wallet requirements; Security anad devOps practices review, incident analysis review
2022-07-06	13:30	16:00	2.5		(Continued) and SMS Wallet initial research and mechanism discussions
2022-07-06	17:00	19:00	2		(Continued) and sync on various use cases such as gaming
2022-07-07	14:00	15:00	1		Oversea investigation follow-up and next step preparation
2022-07-08	19:00	22:00	3		SMS Wallet core security mechanisms design
2022-07-08	23:00	0:00	1	19.0	Refining SMS Wallet core security mechanism
Week 63	7/9	7/15			
2022-07-09	0:00	2:00	2		SMS Wallet security mechanism write up and revision
					SMS Wallet security mechanism review and research on phone-number and
2022-07-10	15:00	16:30	1.5		text-message based wallets
2022-07-11	0:00	3:30	3.5		SMS Wallet full specification (core sections)
2022-07-11	6:00	7:00	1		Q3 initiative and NFT minting platform plan review
2022-07-11	11:45	12:15	0.5		Sync with John on NFT minting initiatives and SMS Wallet
2022-07-11	13:15	18:45	5.5		On-site discussions on gaming, gaming SDK, SMS Wallet, and revising SMS Wallet documentations
2022-07-12	11:45	12:15			
2022-07-12	15:30	18:30	3		On-site discussions and Q&A regarding SMS Wallet and sharable components to Email Wallet and related products; Revision of SMS Wallet documentations
2022-07-12	0:00	1:30	1.5		Revision of SMS Wallet doc and NFT acquisition section
2022-07-13	0.00	1.30	1.5		On-site discussions regarding gaming, SMS Wallet integrations, NFT minting;
2022-07-13	12:00	16:00	4		Revision of documentations; Bridge hack
2022-07-13	17:00	18:30	1.5		(Continued)
2022-07-13	23:00	0:00	1		SMS Wallet presentation material preparation
2022-07-14	0:00	2:00	2		SMS Wallet presentation deck
2022-07-14	10:30	12:30	2		On-site presentations, SMS Wallet presentation, Q&A, and discussions regarding gaming integrations
2022-07-14	14:00	15:30	1.5		SMS Wallet doc (mini-wallet)
2022-07-14	19:00	20:30	1.5		(continued)
2022-07-14	0:00	2:00	2		
2022-07-15	11:15	12:15	1		SMS Wallet doc (fiat-gateway, offboarding, other notes)
				25.5	Anchain report review and sync up
2022-07-15	12:30	13:00	0.5	35.5	Bridge incident impacted partner follow-up
Week 64	7/16	7/22			Deview NET initiative and gaming CDV procentations and evaluate points of
2022-07-16	0:00	2:00	2		Review NFT initiative and gaming SDK presentations and evaluate points of integrations with SMS Wallet
2022-07-16	15:00	17:00	2		SMS Wallet implementation requirement analysis
2022-07-17	14:00	14:30	0.5		Sync with John on NFT initiatives, SDK plans, and roles of SMS Wallet
2022-07-17	15:00	17:30	2.5		SMS Wallet implementation initial setups
2022-07-18	15:30	19:00	3.5		On-site: SMS Wallet implementation using GCP Datastore, Twillio, and server
2022-07-10	13.30	19.00	3.3		Research and implemenetation on SMS operations, server APIs, and security
2022-07-18	22:00	0:00	2		mechanisms
2022-07-19	0:00	1:00	1		(Continued)
	14:30	18:30	4		On-site: SMS wallet implementation, sync up and planning with Hopsnotch, Q&A on SMS Wallet with various individuals
2022-07-19	1				
	22:00	0:00	2		Completing SMS Wallet server side and initial client side package setup
2022-07-19	22:00 0:00		2		1 0 1
2022-07-19		0:00 2:00			(continued) and some client implementations
2022-07-19 2022-07-20					
2022-07-19 2022-07-20 2022-07-20	0:00	2:00	2		(continued) and some client implementations On-site: SMS wallet client side implementation, persistence, state
2022-07-19 2022-07-20 2022-07-20 2022-07-20	0:00	2:00	2 2.5		(continued) and some client implementations On-site: SMS wallet client side implementation, persistence, state management, components; Gaming use cases sync up
2022-07-19 2022-07-20 2022-07-20 2022-07-20 2022-07-20	0:00 13:30 17:00	2:00 16:00 20:00	2 2.5 3	30.0	(continued) and some client implementations On-site: SMS wallet client side implementation, persistence, state management, components; Gaming use cases sync up (continued)
2022-07-19 2022-07-20 2022-07-20 2022-07-20 2022-07-20 2022-07-21	0:00 13:30 17:00 22:00	2:00 16:00 20:00 0:00	2 2.5 3 2	30.0	(continued) and some client implementations On-site: SMS wallet client side implementation, persistence, state management, components; Gaming use cases sync up (continued) (continued) and client side apis Magic.link research and comparison to SMS Wallet
2022-07-19 2022-07-20 2022-07-20 2022-07-20 2022-07-20 2022-07-21	0:00 13:30 17:00 22:00 10:30	2:00 16:00 20:00 0:00 11:30	2 2.5 3 2	30.0	(continued) and some client implementations On-site: SMS wallet client side implementation, persistence, state management, components; Gaming use cases sync up (continued) (continued) and client side apis Magic.link research and comparison to SMS Wallet SMS Wallet client side implementation (layout, controls, creation flow); Gaming
2022-07-19 2022-07-20 2022-07-20 2022-07-20 2022-07-20 2022-07-21 2022-07-21	0:00 13:30 17:00 22:00 10:30	2:00 16:00 20:00 0:00 11:30	2 2.5 3 2	30.0	(continued) and some client implementations On-site: SMS wallet client side implementation, persistence, state management, components; Gaming use cases sync up (continued) (continued) and client side apis Magic.link research and comparison to SMS Wallet SMS Wallet client side implementation (layout, controls, creation flow); Gaming marketplace partner sync up
2022-07-19 2022-07-20 2022-07-20 2022-07-20 2022-07-20 2022-07-21 2022-07-21	0:00 13:30 17:00 22:00 10:30	2:00 16:00 20:00 0:00 11:30	2 2.5 3 2 1	30.0	(continued) and some client implementations On-site: SMS wallet client side implementation, persistence, state management, components; Gaming use cases sync up (continued) (continued) and client side apis Magic.link research and comparison to SMS Wallet SMS Wallet client side implementation (layout, controls, creation flow); Gaming marketplace partner sync up Fix server side bugs for creation flow; Fix saga, reducer, actions; Fix OTP
2022-07-19 2022-07-20 2022-07-20 2022-07-20 2022-07-20 2022-07-21 2022-07-21 2022-07-21 2022-07-21	0:00 13:30 17:00 22:00 10:30 13:00 21:30 0:00	2:00 16:00 20:00 0:00 11:30 17:00 0:00 3:00	2 2.5 3 2 1 4 2.5 3	30.0	(continued) and some client implementations On-site: SMS wallet client side implementation, persistence, state management, components; Gaming use cases sync up (continued) (continued) and client side apis Magic.link research and comparison to SMS Wallet SMS Wallet client side implementation (layout, controls, creation flow); Gaming marketplace partner sync up Fix server side bugs for creation flow; Fix saga, reducer, actions; Fix OTP verifications and components; Recovery QR code flow; Utilities, notifications; (Continued) Improved notifications, explorer link; Fix issues with web3 APIs, webpack, polyfill, and package dependency bugs; Wallet component; More fundamental
2022-07-19 2022-07-19 2022-07-20 2022-07-20 2022-07-20 2022-07-21 2022-07-21 2022-07-21 2022-07-22 2022-07-22	0:00 13:30 17:00 22:00 10:30 13:00 21:30	2:00 16:00 20:00 0:00 11:30 17:00 0:00	2 2.5 3 2 1 4 2.5	30.0	(continued) and some client implementations On-site: SMS wallet client side implementation, persistence, state management, components; Gaming use cases sync up (continued) (continued) and client side apis Magic.link research and comparison to SMS Wallet SMS Wallet client side implementation (layout, controls, creation flow); Gaming marketplace partner sync up Fix server side bugs for creation flow; Fix saga, reducer, actions; Fix OTP verifications and components; Recovery QR code flow; Utilities, notifications; (Continued)

	Regular	210.5	
	Overtime		36.5
	Total	247.0	