



From the console of the Chief Engineer

Capt. Darrell W. Millner

Greetings, This is a bit of an awkward start, but I believe the right thing for me to do is to reach out to XO Willy Smith and submit myself to be put on report for non performance. I worked hard with my team to get submissions in on time, to line up the newsletters format, and to be sure all my submissions, articles and reports were in for the Heimdal's Rainbow Connection for March. Mission accomplished, even got the Engineering report out to R1 Coordinator on time (as usual). But then what?? I "Blinked" (and fortunately this is not a Doctor Who episode) Yes Blinked, and last night while communicating with Linda I was aware that The Engineering Link for March had not been published. Talk about scrambled Horta eggs on the face. Since temporal modifications are not an option, better get things moving again. Hope the XO is in a good state of mind, as a new Grandfather not sure of his sleep patterns recently.

Amazing to think Spring of 2022 is almost on our doorstep and Daylight savings time starts on 202203.13 Wait a moment, how would that benefit us on a starship? OK, Scratch that. Back to Spring .. naaa

The Shuttle Bay Project, Engineers Manual, and several other projects continue to move forward and individual Engineer participation continues to be strong. It's astounding what a few like minded individuals can accomplish when they put their minds to a task. Every month the Engineering team pushes forward, expanding this newsletter, submissions to the Heimdal's Rainbow Connection, getting together on Zoom, and exchanges back and forth on the Heimdal's FB. So keep an eye out – this is gonna be our year.

As the "status" of things continues to change, keep up to date regarding the Heimdal's upcoming Anniversary Party, Phazer Sims, Sales, Auction, outdoor gatherings and so much more.

Quick Correction, my signature usually includes "R1 Gamma Sector, I have been incorrect, our ship actually resides in R1 Delta Sector, fixed!

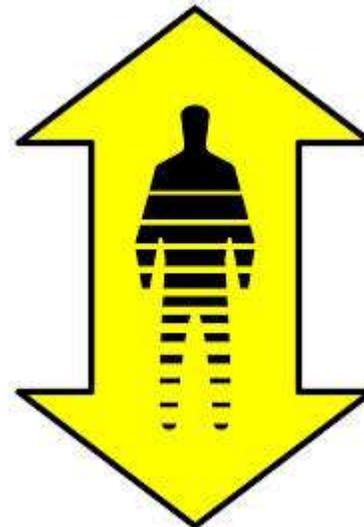


Here we go folks, "Warp Five" into our next issue....

- The Adventurous Life,

Capt. Darrell Millner, CEO
USS Heimdal, R1,
Delta-Sector

"It's no Tribble at all"



Transporter Phobia?
"I must be missing something"
A few pieces perhaps?

STARFLEET BY THE NUMBERS

As of SD 202203.04

STARFLEET

- Data not available

REGION 01

- Data not available

USS HEIMDAL

- 63

HEIMDAL ENGINEERING

- 08



Online Resources

Heimdal's Home Page

<https://www.ussheimdal.com/>

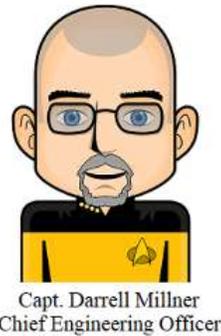
Engineering Portal

<https://trek.millnernet.com/>

<https://R1.SFI.org>

"I'm willing to bet that you've brought one of those famed STARFLEET Engineers who can turn rocks into replicators"

- Vorta Keevan DS9 S6 - A Call To Arms



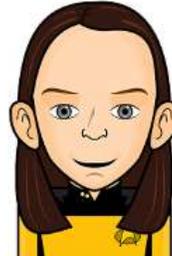
Capt. Darrell Millner
Chief Engineering Officer



Cmdr. Dennis Henderson
Sr. Engineering Officer
Shuttle Bay Officer
Matter/Anti-matter Specialist



Capt. Lem Campbell
Sr. Engineering Officer
Flight Deck Officer
Transporter Chief



Lt. Cmdr. Larry Rowland
Sr. Engineering Officer
Shuttlecraft Pilot
Transporter Specialist



Ens. Larry Whately
Duty Engineering
Quartermaster

YOU ?
➔



ARE YOU READY?

Heimdal Engineering
SD: 202202.01



PO3 Gary Burley
Maintenance Engineer
Ship Fitter



Lt. Cmdr. Zak Lyon
Helm Officer
Technology Specialist



ENS. Jody Lyon
Dilithium Maintenance
Recreation Officer

WE HAVE ROOM FOR YOU - A SAMPLE OF FICTIONAL DUTY POSITIONS HERE IN ENGINEERING -

- Chief Engineer** - Heads department. Oversees running of all engineering systems and divisions. Accountable for the overall performance of the vessel. (A Miracle Worker).
- Assistant Chief Engineer** - Primary assistant or backup to the chief engineer. In situations when the chief engineer is away from the engine room, the assistant chief engineer is responsible/in charge.
- Shuttle Bay Officer - (SBO)** Coordinates with Operations manager on Main Bridge for shuttle launch and landing clearance. Directly oversees FDO's.
- Helm Officer** - Responsible for ship's maneuverability & sometimes weapons control.
- Navigator** - Plot the ship's course; responsible for safely getting the ship from point A to point B.
- Transporter Chief** - Oversees the operation of ship's transporters.
- Transporter Specialist** - Maintain & operate the transporters. Work with the Transporter Chief.
- Duty Engineer** - Engineering officer acting as the duty officer when the chief or assistant chief engineer is off-duty.
- Engineering Specialist** - All-purpose engineers. Environmental controls, replicators, holodecks, and more.
- Flight Deck Officer** - (FDO) Responsible for all operations within their particular shuttle bay (3), reports directly to SBO for launch and landing clearance. Primary station - Operations Control Booth.
- Shuttlecraft Pilots** - Pilot shuttlecraft on missions that require use of shuttlecraft.
- Technology Specialist** - Experts with all machines & technological contrivances.
- Matter / Anti-matter Specialist** - Monitor the intermix process.
- Dilithium Crystal Specialist** - Responsible for monitoring the dilithium crystal converter assembly.
- Damage Control Specialist** - Evaluate & control the amount of damage a starship sustains to the best of their abilities. Also effect ship's repairs.
- Deflector Systems Specialist** - Monitor & provide data on the ship's deflectors / shields.
- Quartermaster** - Assign quarters, handle equipment & supplies & the distribution of same.
- Maintenance Engineer** - Specializes in repairing damaged systems.
- Ship Fitter** - Fabricate, assemble, and build structural parts of/for the ship.
- Recreation Officer** - Activities director. Maintains morale. Maintains the Recreation Deck. Coordinates off duty crew activities.

SD: 202202.27 – Monthly Engineering Report – Ensign Jody Lyon

Sir, Everything is running smoothly this month except my academy course. It is more difficult than I had imagined, but I am pushing forward.

I have been so excited with my new engineering assignment that I don't seem to be making enough time for study. Being involved in setting up the Antimatter Containment Leak Drill gave me an excellent opportunity to learn from the veteran engineers.

My new duty station monitoring the dilithium crystal converter assembly is awesome. And I mean that in two ways. Without this beautiful element, our ship would not last long. It's role in power and regulation of power can't be over-estimated. I have always been fascinated by the crystals but must admit to not grasping the theory of their existence in more than three dimensions. Must study this more.

I am becoming familiar with Heimdall's systems. Can't wait to learn more. I think I've found my home.



Ensign Jody Lyon
USS Heimdall NCC-1793
Engineering Dept

SD: 202202.24 – Monthly Engineering Report – Lt. Cmdr. Zak Lyon

This month's duties were mostly routine. Third shift on the bridge reunited me with crew I hadn't worked with for a while. I feel so comfortable on the helm now. We continued mapping the sector adjacent to Kreetassan space, being very careful not to do anything that might violate their many taboos. You would think that after all these years we would be aware of all of them, but they are typically unknown until we violate them. They still make some of the best plasma injectors around so a positive relationship with them is advisable. We detoured slightly to allow Sciences to conduct more detailed research on a recently discovered anomaly.

As you know, I was chosen to be on this week's Engineering Drill – Antimatter Containment Leak Drill. This is something all Engineers need to be proficient in. I look forward to participating in the weekly drills and becoming competent in many crucial operations functions/emergencies. Crossing my fingers that I'll never have to use it. I also got to know Ensign Lyon (no relation), a new crew member and engineer.

I will be forwarding an update on the MASU project. It is testing well. Lt. Vinaya related that she can finally visualize working on the bridge – a long time dream of hers. Let me know what you think about the initial schematics and advise of any enhancements or suggestions to improve the unit.



Lt. Cmdr. Zak Lyon
USS Heimdall NCC-1793
Engineering Dept

SD: 202203.01 – Region 01 Awards Program Update – Capt. Darrell Millner

On SD: 202202.07 we received notification from the Region One Awards Program, a department of SFI Region One, announcing the following regarding the Heimdall and our Engineering Team.

The USS Heimdall has received Region One Final Frontier unit award and SOL III unit awards & Region One Commendations to USS Heimdall Engineers – “Captain Darrell Millner & Lt. Cmdr. Zak Lyon”

XO Smith will be providing the first round to our team in the Half Moon Lounge later this evening, those not on duty are welcome to attend, all others – join us for scones in the main shuttle observation deck afterwards. “Well earned Mr. Lyon, Well earned”



Capt. D. Millner
USS Heimdall NCC-1793
Chief Engineer



SD; 202112.18 - Monthly Engineering Report - Special Report Pt. 1 - Lt. Cmdr. Rowland

In complying with the orders from Engineering Chief Millner, I submit the first part of the total explanation of what happened during the shakedown and maintenance of one of our Type 6 Shuttlecrafts on SD:202111.5. Although for quite a long time, it has been acceptable to bring your pets aboard the U.S.S. Heimdal, while assigned, It has never been allowed to bring your pets on a mission or an assignment. Since it is part of my job to do these routine tests, due to the Shuttlecrafts 1 year refit and major repairs (if needed) on SD: 202206.1, and I really wasn't on a direct mission or assignment. I thought what the harm, I would bring [Ensign Peewee] My Pet Squirrel aboard, besides He had never been on a Shuttlecraft before, and thought he would enjoy it.

In order to get Ensign Peewee to and from the Shuttle bay without any trouble, I replicated the Engineering Tool Kit, made it of proper size and dimensions to transfer him in complete safety. No one would consider an Engineer walking around with a Tool kit to be anything but normal. I went in the Shuttle bay, entered the Shuttlecraft and closed the hatch, let out my "assistant" and preceded to follow departure guidelines. I went out to about 1000 yards off the Starboard side of the Heimdal, set the course to the exact heading of the Heimdal, which was running on Impulse Engines as required for this test, and Engaged the Engines and began my tests.

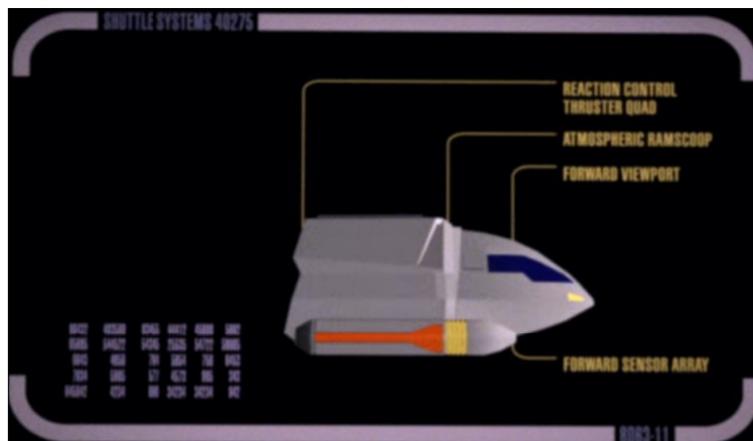
Everything was going smoothly and quite routine. The first test I ran was on the environmental controls. I took the temperature in the cabin down to -17.7778 Celsius for five minutes, then raised the temperature to 37.7778 Celsius for five minutes. Then back to normal temperature. I also shut down life support completely and back to normal within 30 seconds. No issues were found with that system. Ensign Peewee was sitting on my shoulder, making sure I was doing the job correct of course, and even licked a little sweat from my cheek when the temperature reached 100 degrees Fahrenheit. Both of us were enjoying each others company.

The next test was on the course computer and helm, which consisted of plotting a course, engaging the computers, traveling on that course, arriving at the destination, and returning and resuming the original course. Everything checked out to be nominal. Before each test, I reported back to the Engineering Dept. On the Heimdal, to keep them informed on which test was I was about to perform, so they could check things with their computers, and follow along.

The third test, was a routine approach to a asteroid, enter a orbit for 10 orbits, then descend to the surface, land, ascend and enter orbit again for 5 orbits and return to original course. This not only checks out the RCS Thrusters, but the Impulse Engine shutdown and startup procedures. Ensign Peewee was sitting at the view screen, watching as I completed the task. It was at the point of reentering the orbit after takeoff, that the Port Aft Thruster stuck in the open position and we began to spin, It was at this time that Ensign Peewee began to click his teeth together first very softly then increased in volume. He was getting angry, but I knew the reason, so did not think it was a issue. I was a bit dizzy myself as I began a manual shutdown of the Thruster. Only three times during my tests, did the Heimdal communicate with me, to see if I needed help, at this time, during the final test, and during the last moments of being aboard the Shuttlecraft, that time I did not hear them, because of Ensign Peewee and myself being Unconscious. End of Part 1



Lt. Cmdr. Larry Rowland
USS Heimdal NCC-1793
Engineering Dept





Update on Mobile Aquatic Support Unit (MASU)

SD: 202202.27 – Engineering Link Article - Lt. Cmdr. Zak Lyon



The purpose of the MASU project is to provide accessibility and inclusion for the wide-range of Cetacean crewmembers. Their environmental and adaptive technology needs have not been addressed to date as, on the whole, the Cetacean officers tend to prefer CetOps. I would posit that we simply took that preference as a hard rule.

After becoming friends with Lt. Vinaya, I discovered that she desired to be more connected to operations outside of the aquatic tanks. Specially, her dream was to be able to work on the bridge not just communicate with the bridge. We determined to research and design a unit which would support her goals.

The federation must extend options for all officers. No culture is alone in wanting to be included – whether on land or in the sea. We couldn't navigate as efficiently without the support of CetOps. Their value could only be enhanced by their presence on the bridge and in social interaction with the crew.

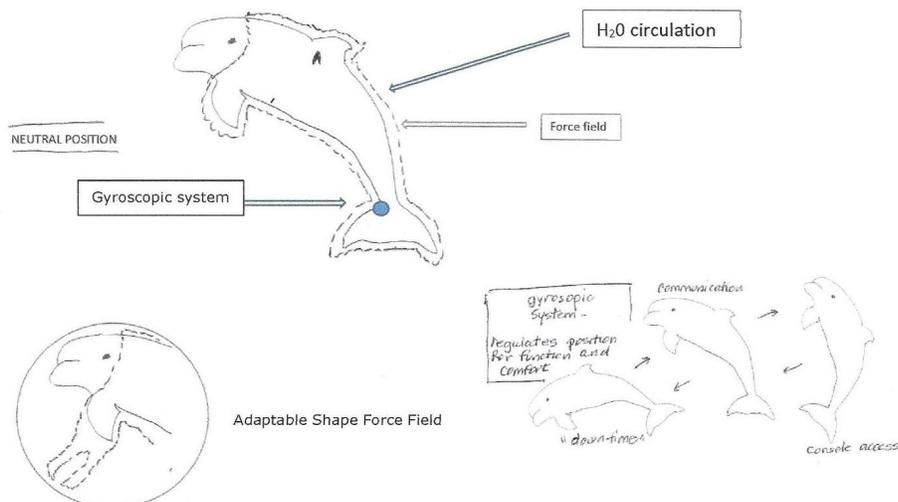
The first phase carried out by Vinaya was to access and innumerate the environmental requirements that must be incorporated into the unit. These needs were: Moisture, Oxygen, Balance, and Mobility. Secondly, we both looked at the next level of needs – those necessary to carryout onboard tasks outside the tanks. These included: Tactile Interface, Communication, Extension of Mobility Envelope, and Access to LCARS (Library Computer Access and Retrieval System) and operations panels.

We spent a good deal of time outlining specifics before bringing on Ensign Miyazaki who is an excellent designer. She came up with designs that could allow freedom of movement always maintaining center of balance. Vinaya acknowledged that it will be necessary for her to be upright to carry-out certain tasks, it is not a comfortable position and the unit would require a gyroscopic solution to enable her to adjust as needed. Miyazaki determined that a force field would take the old enviro-field generator used with Cetaceans in the recent past to the next level. It would conform to the users movements, allow even moisture distribution, and consistent oxygen levels. Whereas the older enviro-field units required anti-grav to move a tank and the officer to slip fins into mechanical units to interact with tools and panels, this unit would allow the user to move independently and extend the force field to make contact outside the unit. The user would not need mechanical “fingers,” but could program the forcefield to take the needed shape. Further, instructions would be uploads to provide tactile feedback.

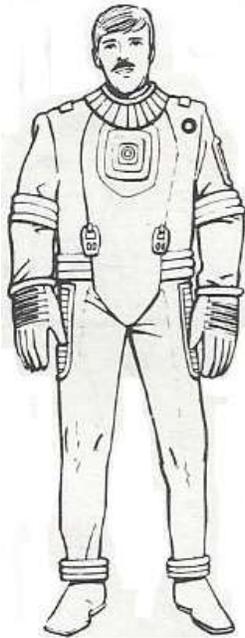
Miyazaki completed her first mock-up and Vinaya will be giving her feedback and notes for any alterations. A Cetacean using the unit should be able to change positions to access panels and maintain comfort levels and center of gravity, keep well hydrated, move independently using anti-grav and audible commands, communicate with aquatic and non-aquatic crew, and complete all duties. A working prototype will be completed soon. Vinaya is anxious to try it out. She has used the enviro-field unit and described it as dragging around a “tank” and always feeling separate from others, making it too easy for others to see her as separate.

I want to thank all the engineers who worked so diligently on this special project. You are to be congratulated for a job well done.

In the late 20th century, Earth took its first halting steps toward equality through accessibility. It wasn't perfect. There are allows new strides to be taken. We now have the technology to make Vinaya's dream a reality.



STARFLEET EDUCATIONAL SERVICES



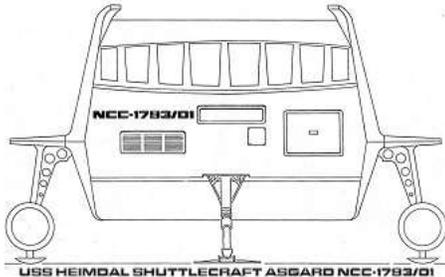
Heimdal Engineers at Starfleet Academy

2022 February Graduates
No updates at this time



Region 01

R1 Summit Update August 19th - 21st.2022 r1summit.com
STARFLEET Virtual IC 2022 August 13th 2022 sfi-vic.com
R1 Regional Coordinator Election Process has begun -updates can be found in the Heimdal's Rainbow Connection, FB: Starfleet Region One. Additional updates as they become available..
- Millner Out.



Survey Question 202203

You find yourself having a Sam Rutherford "Okeydokey!" moment and decide to move to a different department. Which department would you choose and why?

- Please email your answer to Chief Millner before 25 March



Tool Box Question

Survey Question 202202 Tool Box: You are gifted with one tool / one item from STARFLEET you can place in your bag and take with you, what would you choose?

- Zak: I would choose a dermal regenerator. Would be nice to just "wave a light around"and heal up.
- Jody: An anti-gravity generator sure would come in handy. Especially when moving furniture or changing a tire.
- Darrell: Miles O'Brien's personal Tool Kit, he always seemed to have *just the right item* in that case of his.

Heimdal Monthly Engineering Zoom

March 14th 7:00 p.m. Monday

*** Zoom coordinates will be emailed ***
If you have scheduling or technical challenges, let me know



ST : VOY Episode "Prototype" The crew find a robot floating in space - self identified as a "Automated Personnel Unit". Brief summary they killed their creators the Preylor and are trying to make it possible for it to construct new members of its race which of course creates a moral dilemma for the Captain Janeway and B'Elanna Torres. Engineering conflicts as so many do start as "I can do a thing" but what are the unintended consequences? After B'Elanna is kidnaped and provided a lab to work in, note what shows up - a Robotic Arm, oh my does it look familiar? It's actually **Johnny 5** - Notes from "Whatculture.com/star-trek" as seen on YT - Millner Out



STAR TREK Trivia Anyone?

ST TNG:

- Geordi and Wesley go through Data's stuff, mourning his death" -

Name the episode

Last Months Question: TNG Episode "Geordi, .. metallic ore, phaser, spike"

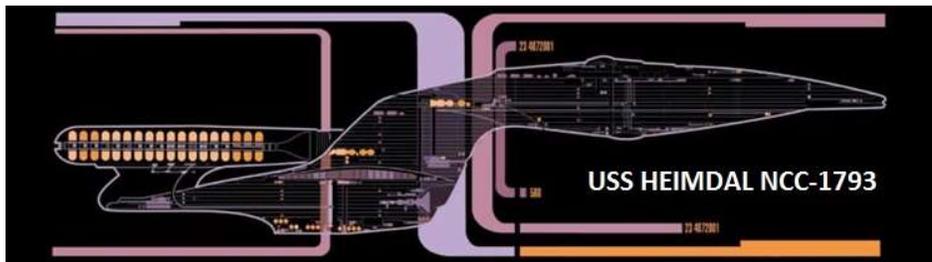
Answer: "The Enemy" TNG, Episode 3x07

Before acting in Episode IV - A New Hope, Mark Hamill had never seen a single Star Wars movie



Special thanks to our contributors this month: Jody L., Larry R., Zak L., Gary B., Darrell M.

Please note, corrections and additions are always welcome



**STAR FLEET
POSTAL
SERVICE**

Disclaimer: No part of this newsletter is intended as an infringement on the Star Trek copyright held by Paramount™ or any other company or entity. This is a not for profit, fan organization, that strives to embrace the ideals of Star Trek, the inspiration of the "Great Bird of the Galaxy" and have fun in the process.

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