Mathieu VENOT

mathieuvenot.com

Mathieu VENOT

Student in Naval Architecture, MSc
Architect, MArch
Born September 30, 1990

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Experience
Education

10/2015 - Now	Dixie Lab : Co-founder
05/2013 - Now	Mathieu Venot : Consultant
09/2018	ENSTA Bretagne : Naval Architect, MSc
04/2018 - 08/2018	ENSTA Bretagne : Intern
09/2017	DMS2017 : Workshop leader
03/2017	ESBAM : Workshop leader
09/2015 - 02/2017	ENSAPM : Workshop leader
10/2016 - 01/2017	ENSAM - ENSCI Les Ateliers : Studio tutor
11/2016	Dixie Lab : DixieVR publication
09/2016	AAG2016 : Workshop leader
09/2016	ENSAPM : Master thesis publication
09/2013 - 09/2016	ENSAPM : Studio & Workshop tutor
06/2016	ENSAPM : Architect, MArch
06/2015 - 08/2015	LeFabShop : Intern
07/2013	EZCT : Intern
07/2011	Port Napoleon : Intern

<u>Mathematical programming</u>
Helicoidal stair construction by mathematical operations
[Academic]

```
Show[{nonbezier1, nonbezier2, ligneh, lignehnez, tube, lignegarde,
  lignemarche, tubegarde, surfcm, tubemarche, tubeext, barriere}]
```

```
pointsSurfMarche1 =
  Table[{ptsMarchesIntOK1[[i, j]], ptsMarchesExtOK1[[i, j]], ptsMarchesExtOK1[[
      i, j + 1]], ptsMarchesIntOK1[[i, j + 1]], ptsMarchesIntOK1[[i, j]]},
   {i, 1, Length[ptsMarchesIntOK1]}, {j, 1, Length[ptsMarchesExtOK1[1]]}];

surfmarcheOk1 = Delete[Map[Polygon, pointsSurfMarche1, {2}], -1];
```

<u>Generative Landscapes</u>
Shape and color detection for procedural generation
[Academic]

Structural Station Cover
Boat station parametric design
[Academic]

Factory Rehab

Rehabilitation of the Ivry's water treatment factory into students complex and housing

[Academic]

PLAN DE TOITURE AVEC POSITIONS DES SECTIONS - ECHELLE 1:500

PLAN DU REZ DE CHAUSSEE - 1M - ECHELLE 1:500

PLAN DU PREMIER ETAGE - 4M - ECHELLE 1:500

PLAN DU DEUXIEME ETAGE - 7M - ECHELLE 1:500

TYPOLOGIES D'APPARTEMENTS AU PREMIER ETAGE

39M²

AILE NORD

30,2M²

AILE CENTRALE

24M²

AILE SUD

TYPOLOGIES D'APPARTEMENTS AU DEUXIEME ETAGE

30,5M²

AILE NORD

27M²

AILE CENTRALE

22M²

AILE SUD

SIX TYPOLOGIES DIFFERENTES D'APPARTEMENTS

COUPE LONGITUDINALE DES BASSINS - FACADE DU BATIMENT - AA' - ECHELLE 1/500

COUPE LONGITUDINALE DE LA BIBLIOTHEQUE ET DE LA COUR INTERIEURE - BB' - ECHELLE 1/500

COUPE LONGITUDINALE DES LOGEMENTS - CC' - ECHELLE 1/500

COUPE TRANSVERSALE DE LA BIBLIOTHEQUE ET D'UNE DES FAILLES - DD' - ECHELLE 1/200

COUPE TRANSVERSALE EN CHICANE DES LOGEMENTS ET D'UNE FAILLE - EE' - ECHELLE 1/100

Urban and Housing
Program redefinition for Paris 19th district and housing analysis
[Academic]

<u>Virtual Reality Architectural Conception Software</u>

Real-time immersive simulation, environment acquisition, interoperability and multi-user collaboration

[Academic]

Sound Spectrum Materiality
Sound analysis and extracting for 3D printing prototyping
[Academic]

Line : Timeline Bar
SOLO
Slider : Intensity Scale
1/2/3 : Display Modes
S : Display Strokes
&/é/" : Strokes Modes
T : File Input
I : Micro Input
W : DXF Export
X : Obj Export
Name : Endeavors.mp3
Length : 3mn41s
Position : 0mn25s
FPS : 16
Display Modes : 2
Strokes : false
Strokes Display : 2
// SOUND MATERIALITY
VENOT Mathieu
Line : Timeline Bar
SOLO
Slider : Intensity Scale
1/2/3 : Display Modes
S : Display Strokes
&/é/" : Strokes Modes
T : File Input
I : Micro Input
W : DXF Export
X : Obj Export
Name : Endeavors.mp3
Length : 3mn41s
Position : 0mn29s
FPS : 16
Display Modes : 3
Strokes : false
Strokes Display : 2
// SOUND MATERIALITY
VENOT Mathieu
Line : Timeline Bar
SOLO
Slider : Intensity Scale
1/2/3 : Display Modes
S : Display Strokes
&/é/" : Strokes Modes
T : File Input
I : Micro Input
W : DXF Export
X : Obj Export
Name : Endeavors.mp3
Length : 3mn41s
Position : 0mn45s
FPS : 16
Display Modes : 2
Strokes : true
Strokes Display : 1
// SOUND MATERIALITY
VENOT Mathieu
Line : Timeline Bar
SOLO
Slider : Intensity Scale
1/2/3 : Display Modes
S : Display Strokes
&/é/" : Strokes Modes
T : File Input
I : Micro Input
W : DXF Export
X : Obj Export
Name : Endeavors.mp3
Length : 3mn41s
Position : 0mn46s
FPS : 16
Display Modes : 3
Strokes : true
Strokes Display : 1
// SOUND MATERIALITY
VENOT Mathieu
Line : Timeline Bar
SOLO
Slider : Intensity Scale
1/2/3 : Display Modes
S : Display Strokes
&/é/" : Strokes Modes
T : File Input
I : Micro Input
W : DXF Export
X : Obj Export
Name : Endeavors.mp3
Length : 3mn41s
Position : 0mn02s
FPS : 16
Display Modes : 1
Strokes : true
Strokes Display : 2
// SOUND MATERIALITY
VENOT Mathieu
Line : Timeline Bar
SOLO
Slider : Intensity Scale
1/2/3 : Display Modes
S : Display Strokes
&/é/" : Strokes Modes
T : File Input
I : Micro Input
W : DXF Export
X : Obj Export
Name : Endeavors.mp3
Length : 3mn41s
Position : 0mn05s
FPS : 16
Display Modes : 2
Strokes : true
Strokes Display : 2
// SOUND MATERIALITY
VENOT Mathieu
Line : Timeline Bar
SOLO
Slider : Intensity Scale
1/2/3 : Display Modes
S : Display Strokes
&/é/" : Strokes Modes
T : File Input
I : Micro Input
W : DXF Export
X : Obj Export
Name : Endeavors.mp3
Length : 3mn41s
Position : 1mn09s
FPS : 16
Display Modes : 3
Strokes : true
Strokes Display : 2
// SOUND MATERIALITY
VENOT Mathieu
Line : Timeline Bar
SOLO
Slider : Intensity Scale
1/2/3 : Display Modes
S : Display Strokes
&/é/" : Strokes Modes
T : File Input
I : Micro Input
W : DXF Export
X : Obj Export
Name : Endeavors.mp3
Length : 3mn41s
Position : 1mn19s
FPS : 16
Display Modes : 3
Strokes : true
Strokes Display : 3
// SOUND MATERIALITY
VENOT Mathieu

Ships Design Loops

Passenger Transport Ship, Sailing Offshore Racing Yacht and Sea/River Expedition Sailboat

[Academic]

Surf. Pres	77 m²	Main Lead	5.74 % (1/3)
Surf. Portant	160 m²	Mat	14.38 m
GV	47 m²	Bome	4.125 m
Genois	30 m²	Bout Dehors	2.89 m
Trinquette	14 m²	B. Fleche 1	1.75 m
Spi	113 m²	B. Fleche 2	1.4 m

Jérémie LABASSE

Leïla SALOMON

Mathieu VENOT

JLM 950		Date 13/02/2018		Desc. Plan de voilure
Layout No. 003		Drawn/Checked		Rev:
Series No.		Tol:		Rev:
Scale 1/50	Units mm	Sheet	Dwg. Sz.	Rev:

Loa	15.000 m
Lwl	14.049 m
Boa	4.928 m
Bwl	4.420 m
Toa	1.100 m
D	2.500 m
F	1.900 m
Displacement	17.014 t
Volume	16.584 m^3
Heel	-0.062 °
Trim	-0.837 °
Sinkage	-2.588 mm
Moment to Heel	1009.9 kgf-m
Moment to Trim	438.5 kgf-m/cm
Weight Immerse	515.1 kgf/cm
GZ Max	0.893 m
GZ Max	35.786 °

Ax	1.800 m²
LAx	6.257 m
LAx / Lwl	0.581
WSA	53.830 m²
Awp	50.208 m²
Cb	0.404
Cp	0.654
Cwp	0.809
Cx	0.617
Loa / Boa	3.044
Lwl / Bwl	3.178
LCG	7.168 m
TCG	0.003 m
VCG	0.474 m
LCB	7.157 m
TCB	0.004 m
VCB	-0.313 m
LCF	7.040 m
TCF	0.002 m
VCF	-0.105 m
BMt	3.991 m
BML	36.995 m
GMt	3.205 m
GML	36.209 m

Stability Forms-New Project | Kawaan 50 -
Heel on PS, K Point @ -0.6800 m, Water Density 1.0250, Length in m, Weights in t
No Lost Buoyancy
No Added Water

Hydrostatic Data @ Equilibrium

Displacement	17.0140	t	Draft Amidships	0.2980	DWL	0.0000	
WP	-0.2058	m	Draft at FP	0.3369	DLC	35.6969	TRIM
HP	-0.2058	m	Draft at AP	0.3406	BMT	3.9937	SKI
KP	-0.1079	m	WL to Keel	36.4292	BIL	36.4992	DL
Trim	-0.2020	m	Heel to Port	0.0000	DS	0.6969	DS
Limiting Factor: [30, 40] = 0.0300				Min Head GMTc: 2.6074			

Weight Data @ 0° (KMS0 = 4.3400)					
Item	Weight	LCG	TCG	VCG	Comment
Hull	17.0140	7.1680	0.0000	0.5813	
LCGc	7.1680	7.1680	0.0000		
TCGc	0.0000	0.0000	0.0000		
VCGc	0.4740	0.4740	0.0000		
Max	1.0725	1.0725			

GZ Max @ 35.786° > 25.000°

[3, 30] = 0.2921 > 0.0550	GMtc = 3.2090 > 0.1500
[0, 40] = 0.4469 > 0.0900	GZ Max = 0.8930 > 0.2000
[30, 40] = 0.1548 > 0.0300	GZ 30° = 0.8062 > 0.2000

New Project | Current Load | Current Damage
Stress [Gauss] | Fri Mar 16 10:17:20 2018

MAAT Hydro Demo Rev. 0.0.1
Serial: 0-0-Max

Cruise Speed	9 kts		
Half Entrance	40.628 °		
Wind & Wave	State 5		
Transverse Area	10.6 m²		
Profile Area	28.0 m²		
Froude N	0.351		
RTotal (9 kts)	6.76 kN		
Propeller x2	0.500 m		
Blades	4		
Engine x2	4JH45 33kW		
PETotal	31.3 kW		
Loading	89.2 %		
Fuel x2	6.89 L/h		
CAV	< 2%		
Coeff a	0.48		

Hydrostatic Data. Heel=0.000°, SG=1.0250 (m, m², m3, mt, t)
AP @ x=0.3506, z=0.0, trim= -0.0068, FP @ x=14.0490, z=0.0, trim= -0.2068, Trim: 0.2020 (0.845°)
Aft Mark @ x=0.3500, z=0.0000, trim= -0.0068, Fore Mark @ x=14.0490, z=0.0000, trim= -0.2068 m

Immersed Hull:

Total Displacement	17.0140	t
Volume	16.5840	
L Center of Buoyancy	7.1504	
T Center of Buoyancy	0.0000	
V Center of Buoyancy	-0.3133	
Longitudinal Prismatic	0.6540	
Prismatic Coefficient	0.65765	
Block Coefficient	0.50011	
LV^1/3	5.48600	

Waterplane:

Waterplane Area	50.0561	
Floatation Area Ratio	0.94139	
L Center Floatation	7.0298	
X Fore Floatation	14.3723	
X Aft Floatation	0.3553	
Max Length Waterline	14.0195	
Breadth of Waterline	4.2968	
Height of Mt (KMt)	4.3400	
Trans Met. Radius (BMt)	36.6350	
Trans Met. Radius (BML)	36.6350	
Lng Met. Radius (BML)	36.4992	
Free Surf. Moment (Trav.)	0.0000	
Free Surf. Moment (Long.)	0.0000	

Max Cross Section:

Bf Area	1.8088	
Bf Area Ratio	0.76044	
L Center of Bf	6.6525	
T Center of Bf	0.0000	
V Center of Bf	-0.3214	

Lateral Plane:

Draft at waterline	0.6580	
Lateral Plane Area	0.0000	
Lateral Plane Ratio	0.00000	
L Center Lat. Plane	0.0000	
V Center Lat. Plane	0.0000	

Curve of Areas:

Area: m²	Ratio: (%M)			Ratio: (%Lwl)	Position: x
0.0140	0.08			0.14	-1.4000
0.0280	0.17			0.28	-1.3000
0.0420	0.25			0.42	-1.2000
0.0560	0.34			0.56	-1.1000
0.0700	0.42			0.70	-1.0000
0.0840	0.51			0.84	-0.9000
0.0980	0.59			0.98	-0.8000
0.1120	0.68			1.12	-0.7000
0.1260	0.76			1.26	-0.6000
0.1400	0.85			1.40	-0.5000
0.1540	0.93			1.54	-0.4000
0.1680	1.02			1.68	-0.3000
0.1820	1.10			1.82	-0.2000
0.1960	1.19			1.96	-0.1000
0.2100	1.27			2.10	0.0000
0.2240	1.36			2.24	0.1000
0.2380	1.44			2.38	0.2000
0.2520	1.53			2.52	0.3000
0.2660	1.61			2.66	0.4000
0.2800	1.70			2.80	0.5000
0.2940	1.78			2.94	0.6000
0.3080	1.87			3.08	0.7000
0.3220	1.95			3.22	0.8000
0.3360	2.04			3.36	0.9000
0.3500	2.12			3.50	1.0000
0.3640	2.21			3.64	1.1000
0.3780	2.29			3.78	1.2000
0.3920	2.38			3.92	1.3000
0.4060	2.46			4.06	1.4000
0.4200	2.55			4.20	1.5000
0.4340	2.63			4.34	1.6000
0.4480	2.72			4.48	1.7000
0.4620	2.80			4.62	1.8000
0.4760	2.89			4.76	1.9000
0.4900	2.97			4.90	2.0000
0.5040	3.06			5.04	2.1000
0.5180	3.14			5.18	2.2000
0.5320	3.23			5.32	2.3000
0.5460	3.31			5.46	2.4000
0.5600	3.40			5.60	2.5000
0.5740	3.48			5.74	2.6000
0.5880	3.57			5.88	2.7000
0.6020	3.65			6.02	2.8000
0.6160	3.74			6.16	2.9000
0.6300	3.82			6.30	3.0000
0.6440	3.91			6.44	3.1000
0.6580	3.99			6.58	3.2000
0.6720	4.08			6.72	3.3000
0.6860	4.16			6.86	3.4000
0.7000	4.25			7.00	3.5000
0.7140	4.33			7.14	3.6000
0.7280	4.42			7.28	3.7000
0.7420	4.50			7.42	3.8000
0.7560	4.59			7.56	3.9000
0.7700	4.67			7.70	4.0000
0.7840	4.76			7.84	4.1000
0.7980	4.84			7.98	4.2000
0.8120	4.93			8.12	4.3000
0.8260	5.01			8.26	4.4000
0.8400	5.10			8.40	4.5000
0.8540	5.18			8.54	4.6000
0.8680	5.27			8.68	4.7000
0.8820	5.35			8.82	4.8000
0.8960	5.44			8.96	4.9000
0.9100	5.52			9.10	5.0000
0.9240	5.61			9.24	5.1000
0.9380	5.69			9.38	5.2000
0.9520	5.78			9.52	5.3000
0.9660	5.86			9.66	5.4000
0.9800	5.95			9.80	5.5000
0.9940	6.03			9.94	5.6000
1.0080	6.12			10.08	5.7000
1.0220	6.20			10.22	5.8000
1.0360	6.29			10.36	5.9000
1.0500	6.37			10.50	6.0000
1.0640	6.46			10.64	6.1000
1.0780	6.54			10.78	6.2000
1.0920	6.63			10.92	6.3000
1.0920	6.63			10.92	6.4000
1.0920	6.63			10.92	6.5000
1.0920	6.63			10.92	6.6000
1.0920	6.63			10.92	6.7000
1.0920	6.63			10.92	6.8000
1.0920	6.63			10.92	6.9000
1.0920	6.63			10.92	7.0000
1.0920	6.63			10.92	7.1000
1.0920	6.63			10.92	7.2000
1.0920	6.63			10.92	7.3000
1.0920	6.63			10.92	7.4000
1.0920	6.63			10.92	7.5000
1.0920	6.63			10.92	7.6000
1.0920	6.63			10.92	7.7000
1.0920	6.63			10.92	7.8000
1.0920	6.63			10.92	7.9000
1.0920	6.63			10.92	8.0000
1.0920	6.63			10.92	8.1000
1.0920	6.63			10.92	8.2000
1.0920	6.63			10.92	8.3000
1.0920	6.63			10.92	8.4000
1.0920	6.63			10.92	8.5000
1.0920	6.63			10.92	8.6000
1.0920	6.63			10.92	8.7000
1.0920	6.63			10.92	8.8000
1.0920	6.63			10.92	8.9000
1.0920	6.63			10.92	9.0000
1.0920	6.63			10.92	9.1000
1.0920	6.63			10.92	9.2000
1.0920	6.63			10.92	9.3000
1.0920	6.63			10.92	9.4000
1.0920	6.63			10.92	9.5000
1.0920	6.63			10.92	9.6000
1.0920	6.63			10.92	9.7000
1.0920	6.63			10.92	9.8000
1.0920	6.63			10.92	9.9000
1.0920	6.63			10.92	10.0000
1.0920	6.63			10.92	10.1000
1.0920	6.63			10.92	10.2000
1.0920	6.63			10.92	10.3000
1.0920	6.63			10.92	10.4000
1.0920	6.63			10.92	10.5000
1.0920	6.63			10.92	10.6000
1.0920	6.63			10.92	10.7000
1.0920	6.63			10.92	10.8000
1.0920	6.63			10.92	10.9000
1.0920	6.63			10.92	11.0000
1.0920	6.63			10.92	11.1000
1.0920	6.63			10.92	11.2000
1.0920	6.63			10.92	11.3000
1.0920	6.63			10.92	11.4000
1.0920	6.63			10.92	11.5000
1.0920	6.63			10.92	11.6000
1.0920	6.63			10.92	11.7000
1.0920	6.63			10.92	11.8000
1.0920	6.63			10.92	11.9000
1.0920	6.63			10.92	12.0000
1.0920	6.63			10.92	12.1000
1.0920	6.63			10.92	12.2000
1.0920	6.63			10.92	12.3000
1.0920	6.63			10.92	12.4000
1.0920	6.63			10.92	12.5000
1.0920	6.63			10.92	12.6000
1.0920	6.63			10.92	12.7000
1.0920	6.63			10.92	12.8000
1.0920	6.63			10.92	12.9000
1.0920	6.63			10.92	13.0000
1.0920	6.63			10.92	13.1000
1.0920	6.63			10.92	13.2000
1.0920	6.63			10.92	13.3000
1.0920	6.63			10.92	13.4000
1.0920	6.63			10.92	13.5000
1.0920	6.63			10.92	13.6000
1.0920	6.63			10.92	13.7000
1.0920	6.63			10.92	13.8000
1.0920	6.63			10.92	13.9000
1.0920	6.63			10.92	14.0000

C.G.:	Total:	Solid:	Liquid:
Wgt:	17.0140	17.0140	0.0000
LCG:	7.1680	7.1680	0.0000
VCG:	0.4740	0.4740	0.0000
TCG:	0.0000	0.0000	0.0000

New Project | Current Load | Current Damage
Stress [Gauss] | Fri Mar 16 10:17:20 2018

MAAT Hydro Demo Rev. 0.0.1
Serial: 0-0-Max

Surf. Totale	76.3 m²	GV	43.6 m²	Ris 1	34.5 m²	Mat	13.5 m
TA Up	15.2 m	Genois	32.7 m²	Ris 2	24.6 m²	Bome	7.5 m
TA Down	3.3 m	Trinquette	15.8 m²	Ris 3	13.8 m²	Tangon	4.4 m

Mathieu VENOT	Name Kawaan 50		Date 22/03/2018		Desc. Plans de forme et voilure
	Scale 1/50	Units mm	Tol:	Sw: 001	Rev:

<u>Digital Teaching</u>
Robotic control, prototyping, 3D modeling, parametric design and programming softwares
[Teaching]

AAG 2016 Workshop
Multi-User Cobotics Simulation in Virtual Reality applied construction
[Teaching]

Oculus

DMS 2017 Workshop
Virtual Immersive Architecture
[Teaching]

Virtual Reality Workshops
Architectural and fine arts schools, conventions and events, exhibitions and shows
[Teaching]

VIVE

DixieVR

Immersive Multi-User Simulation for Architectural Conception

[Consulting]

Command:
Standard
CPlanes
Set View
Display
Select
Viewport Layout
Visibility
Transform
Curve Tools
Surface Tools
VisualARQ Objects
VisualARQ Documentation
VisualARQ Tools
CADtoEarth Pane
Export Model
Export Image
Get Surface
Get Drawing
Log Out
Perspective
Top
Front
Right
End
Near
Point
Mid
Cen
Int
Perp
Tan
Quad
Knot
Vertex
Project
Disable
CPlane
x 7.684
y 20.466
z 0.000
Millimeters
Layer 05
Grid Snap
Ortho
Geometry
Primitive
Input
Util
65%
Path
File
Srf
True
Input File
ScaleBeam
ScaleSide
Mesh/Srf Toggle
UnityParser_v3
Nodes
Max Radius
Beams
Beams Types
Sides
Sides Thickness
Swatch
Pt
Line
Mesh
Brep
BANG!
Preview
A×B
Sph
Entwine
0.9.0076

Dixie Lab
Virtual Reality Experts, Architectural Research, Real-time Rendering
[Consulting]

1. squash and stretch
2. staging
3. anticipation
4. straigh ahead and pose to pose
5. follow through and overlapping
6. slow in and slow out
7. arcs
8. secondary action
9. timing
10. exaggeration
11. solid drawings
12. appeal
A
B

<u>Nemo</u>
Grasshopper plugin for Ship Design
[Consulting]

C:\Users\Mathieu Venot\AppData\Roaming\Grasshopper\UserObjects\Nemo\Examples\Example.3dm (1 MB) - Rhinoceros 6 Educational - [Perspective]
File Edit View Curve Surface Solid Mesh Dimension Transform Tools Analyze Render Panels FINE™/Marine Help
Autosave succeeded
Choose coordinate system (CPlane World): _World
Choose world view (Top Bottom Left Right Front Back Perspective TwoPointPerspective): _Front
Autosaving file as C:\Users\Mathieu Venot\AppData\Local\McNeel\Rhinoceros\6.0\AutoSave\Example (394472) RhinoAutosave.3dm
Autosave succeeded
Command:
Standard CPlanes Set View Display Select Viewport Layout Visibility Transform Curve Tools Surface Tools Solid Tools Mesh
Perspective
Name
Nemo
DTMB
Planing
Hull
Transom
Gravity
Thrust
Trimaran
AP
MT
F
B
FP
29.23
51.64
Perspective Top Front Right
End Near Point Mid Cen Int Perp Tan Quad Knot Vertex Project Disable
CPlane x 14375.962 y 4473.818 z 0.000 Millimeters Nemo Grid Snap Ortho Planar Osnap SmartTrack Gumball
Grasshopper - 3_Savitsky Prediction
File Edit View Display Solution Help
3_Savitsky Prediction
Prm Math Set Vec Crv Srf Msh Int Trns Dis Nemo Kangaroo2 Ameba K G M U
0. Im... 1. Section 2. Hydrostatics 3. Resistance 4. Mesh 5. Extra
32%
Naval Efficient Modeling with Optimism !
C:\Users\Mathieu Venot\AppData\Roaming\Grasshopper\UserObjects\...
- - - - - - - Speed = 40 Knots - - - - - - -
FN = 1.360948
RN = 307092621.59752
Lk = 23.312731
d = 0.318953
TAU = 2.572692
- - -
T = 35286.680449
D = 35288.663603
- - - - -
Cf = 0.001779
CV = 3.964057
- - - - -
Ps = 8.68101 & Check fig.18 for : 0.247344
PE = 726162.277695
PB = 1452324.55539

mathieuvenot.com
3D Design, 3D Printing, Digital Teaching, Naval Studies, Prototyping, Rendering
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